CORRDATA® II USER MANUAL

Version 1.0.2.3

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Chapter 1 TheCorrdata® II Quick Tour

This chapter is a quick tour of the Corrdata® II system in order to become familiar with the basic features of the software.

Starting Corrdata®II

The Corrdata® II installation process creates a shortcut icon on the Windows desktop plus an entry in the start menu. Either option can be employed to initiate Corrdata®II.

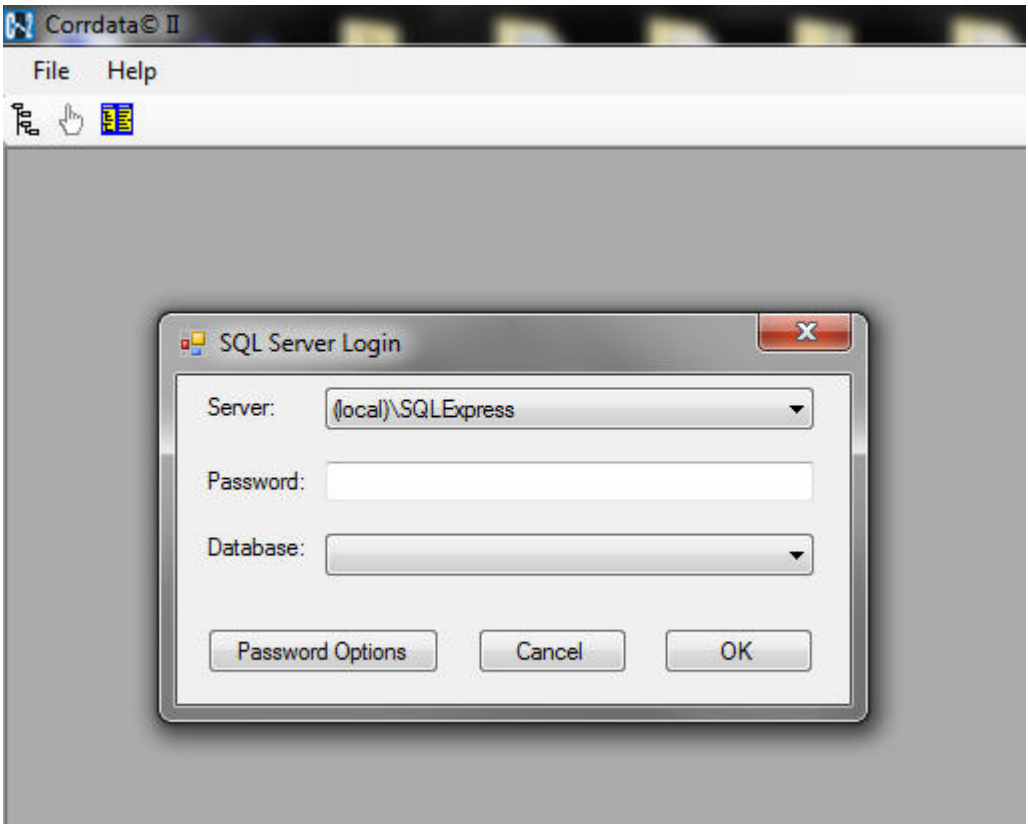
To start Corrdata® II from the desktop, double click on the Corrdata®II shortcut icon.

To start Corrdata® II from the task bar, click on the **Start** button. Select *All Programs* followed by *Rohrback Cosasco Systems* then *Corrdata II*.

Logging on to Corrdata®II

Corrdata® II is password protected. To log on to the system a password must be entered. It is recommended that the password be changed.

What's on the Screen?



NOTE: If SQL is already installed, use the (local) server option and enter the password from the previously installed account. If Database is on the network, enter server by Manual Entry.

To change the password, select ‘Password Options’, and the following dialog will pop up.

SQL Server Login:

Server:

Select (local) if you have a standard Microsoft SQL Server installed.

Select (local)\SQLExpress if you have an Express Server installed. Depending on SQL Server installed, SQLExpress may be (local) for login.

Select Manual Entry to enter the Server Name of another SQL Server.

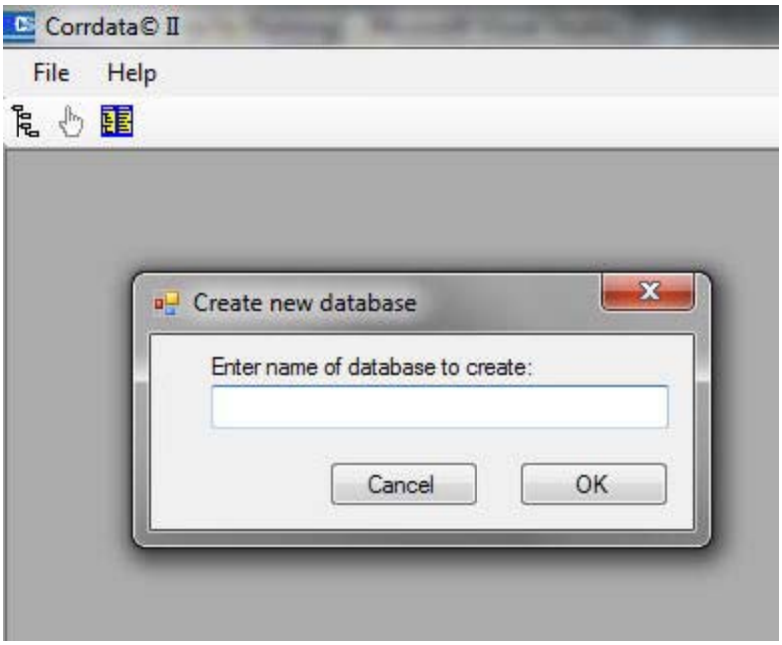
Password:

Enter the Password that was set in last step.

Database:

Select the database created during an earlier running of this software, or select *** Create New Database *** to create a new database.

If this is the first time being run, you must select *** Create New Database ***. Then hit the OK button.



Select a name for your new Database and then hit the OK button.

Main Screen:

Equipment Layout:

Clicking this icon will bring up the Equipment Layout screen. This is where you will configure your System, Sub-Systems, Devices, and Probes. The Equipment Layout screen is shown as a Tree View and works like the Explorer tool in Windows.

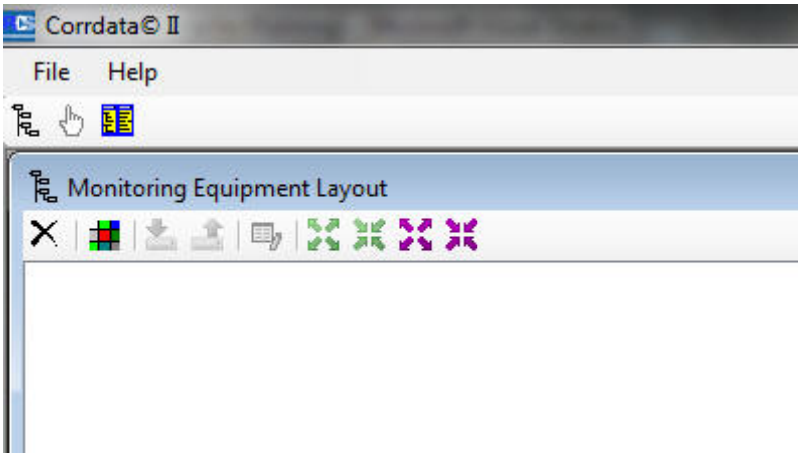
Selection Tool:

Clicking this icon will bring up the Selection Tool screen. You will drag items from the Equipment Layout for selecting graph points. The Selection Tool screen is shown in a list view.

Equipment Layout + Selection Tool:

Clicking this icon will bring up both the Equipment Layout and the Selection Tool screens.

Equipment Layout Screen:



Remove Item:

Clicking this icon will remove a node and all children of that node that you have selected on the Equipment Layout screen.

Item Palette:

Clicking this icon will bring up the Palette screen, where you will select Devices and Probes for placing on the Equipment Layout screen.

Download Data from Device:

Clicking this icon will allow you to download from an attached device to the Corrdata® II software database.

Configure Device:

Clicking this icon will allow you to configure an attached device from the Corrdata® II database.

Data Entry (Manual):

Clicking this icon will allow you to enter data to a selected probe on the Equipment Layout screen. This can be used for correcting data or entering data into a manual entry device, such as the CK-4.

Expand All:

Clicking this icon will expand the Tree view. The F5 key is also a short-cut.

Collapse All:

Clicking this icon will collapse the Tree view. The F6 key is also a short-cut.

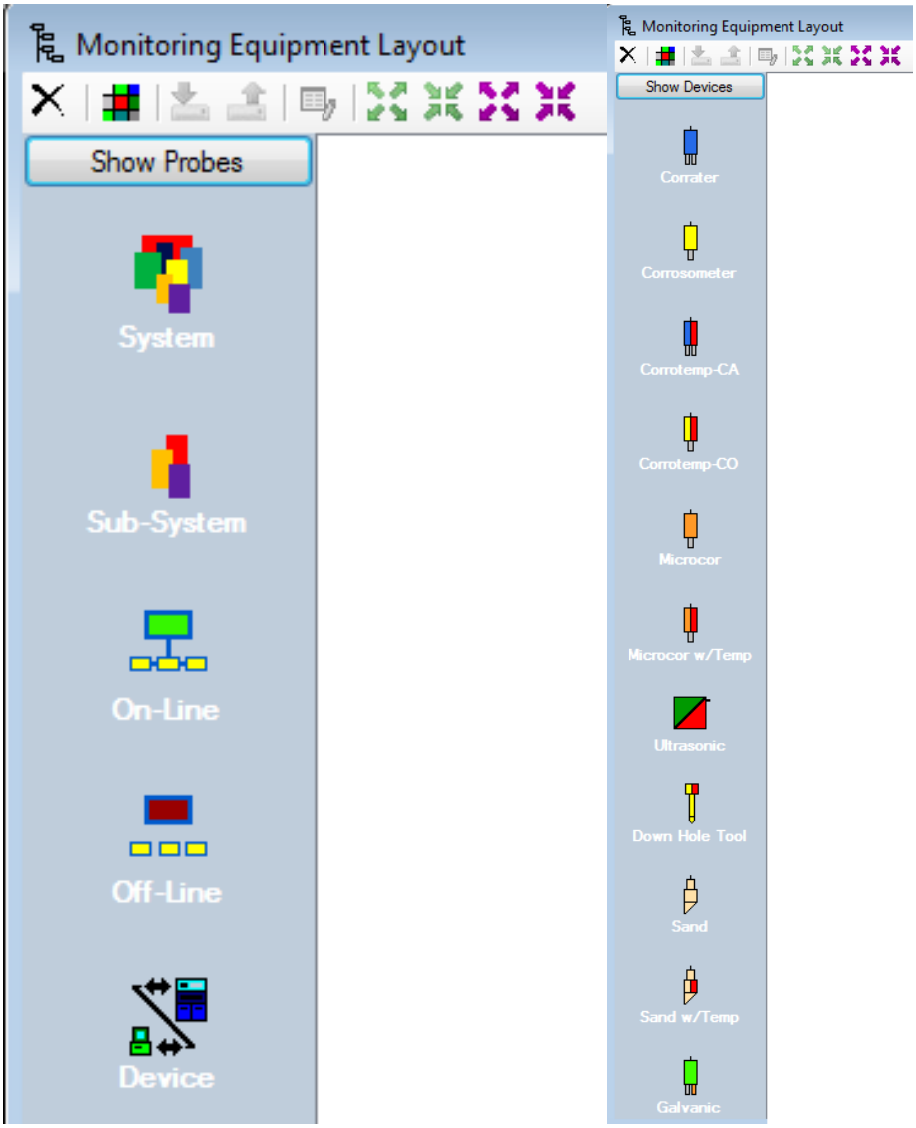
Expand Node:

Clicking this icon will expand the selected Node. The F7 key is also a short-cut.

Collapse Node:

Clicking this icon will collapse the selected Node. The F8 key is also a short-cut.

Palette Screen:



System:

You Drag and Drop the System onto the Equipment Layout screen. At least one System is required to be dropped on the Equipment Layout screen. The System can only be dropped on the main screen, and not on any other item.

Sub-System:

You Drag and Drop the Sub-System onto a System or another Sub-System. Sub-Systems are not required to be used. You can only drop Sub-Systems on a System or another Sub-System.

On-Line:

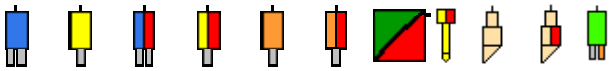
The On-Line is a Device group for holding On-Line Devices, e.g., Microcor® System (MT-9485). The On-Line group is not required for On-Line devices to be used. The On-Line can be dropped on Systems or Sub-Systems.

Off-Line:

The Off-Line is a Device group for holding Off-Line Devices, e.g., Checkmate™, RDC, CK-4. The Off-Line group is not required for Off-Line devices to be used. The Off-Line can be dropped on Systems or Sub-Systems.

Device:

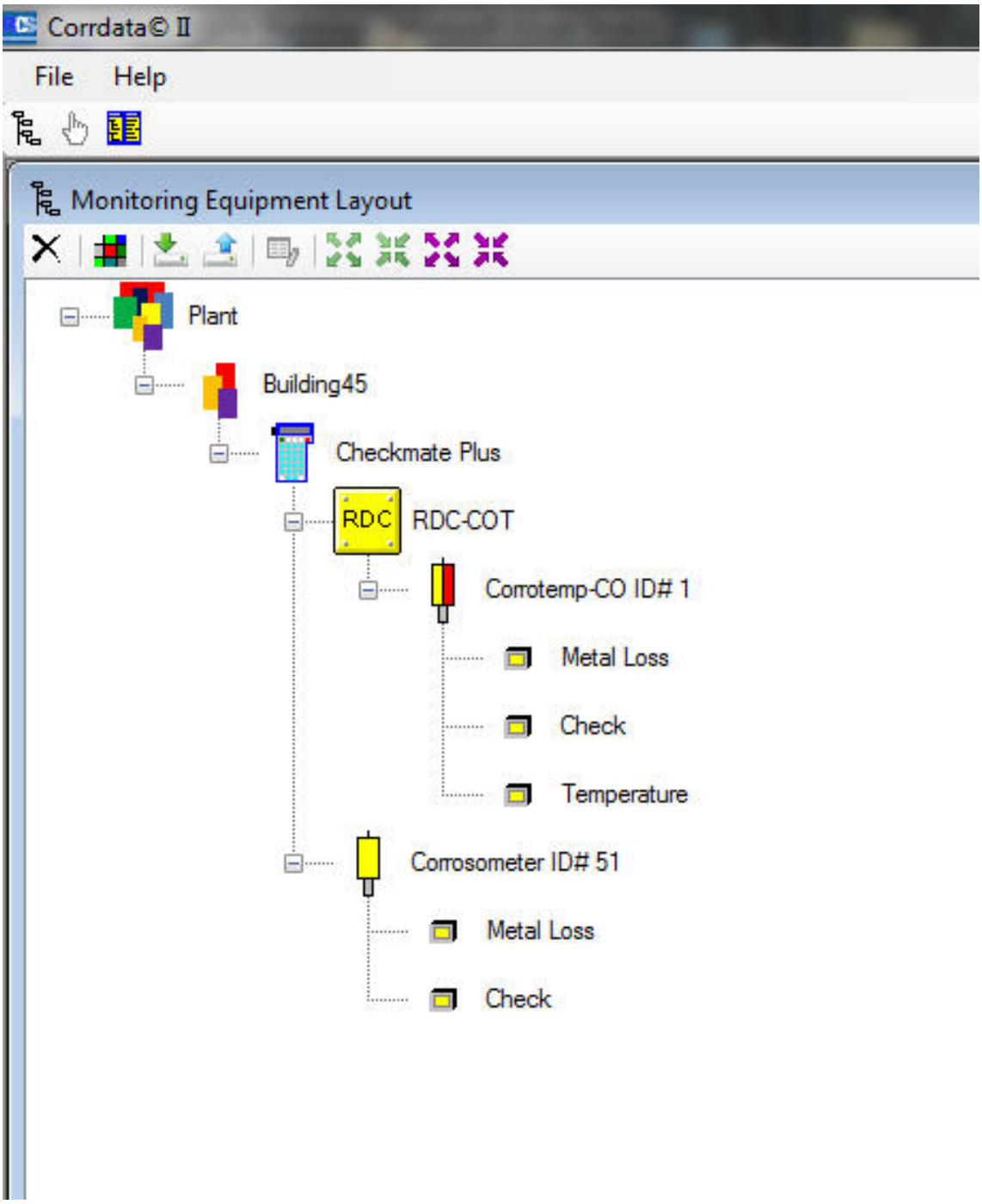
The Device is used to drop a device, e.g., Corrdata System (E9020), Checkmate™ Plus, Aquamate on the Equipment Layout screen. A Device may be dropped on a System, Sub-System, On-line and Off-Line Groups, and in some cases other devices. When the Device is dropped a dialog window will pop-up for you to select the actual device to use.

Probes: 

Probes can only be dropped on devices and then only if the device accepts the type of probe being dropped. When a probe is dropped it will show the measurementattributes for that probe, e.g., Metal Loss, Temperature.

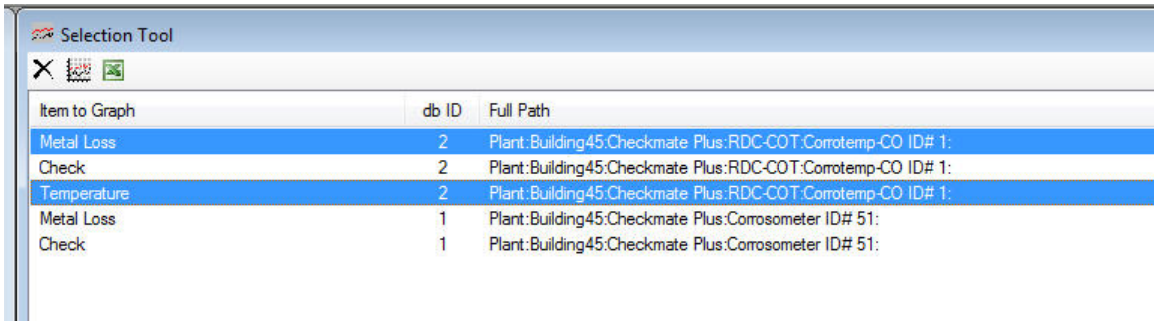
Sample Configuration:

Here is a sample configuration consisting of a System (Plant), Sub-System (Building45), Device (Checkmate™ Plus), Device (RDC-COT), Probe (Corrotemp®-CO ID# 1), and Probe (Corrosometer® ID# 51).



Selection Tool Screen:

I have dragged and dropped the System (Plant) icon from the Equipment Layout Screen to the Selection Tool Screen. All the graph points are listed on this screen. I have also selected Metal Loss and Temperature for use in Graph Example.



Remove Item: ✕

Clicking this icon will remove all items that you have selected on the Selection Tool Screen. This only clears items from the list, but does not delete the data.

Graph Data:

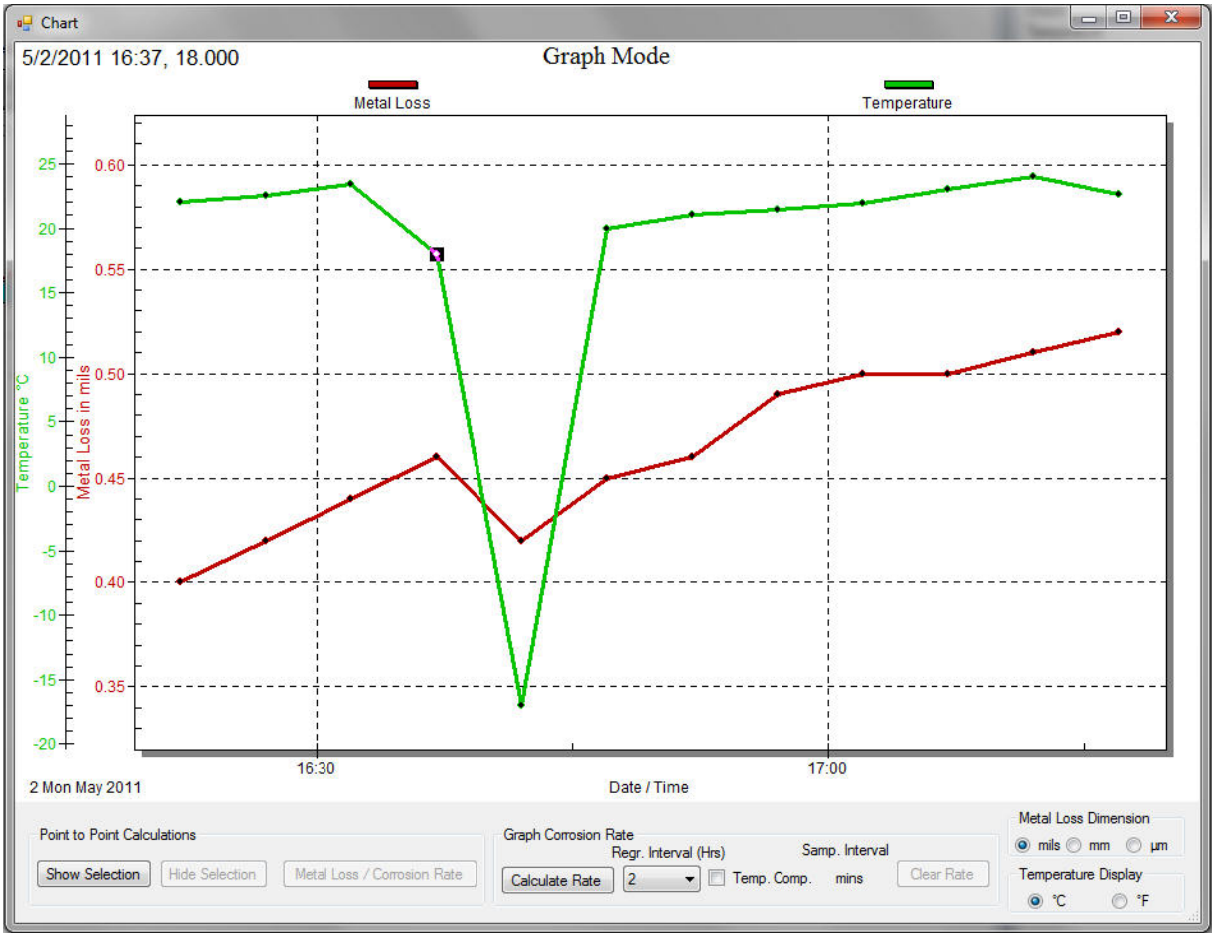
Clicking this icon will bring up the Graph screen. You can graph up to four selected items.

Export to Excel:

Clicking this icon will export selected items to an Excel .csv file. The export folder location can be selected from the Main menu (File / Export Folder).

Graph Screen:

Click the Graph Data and the Graph Screen will show as below. Usage of the graph functions will be covered in subsequent chapters.



Chapter 2 Installing Corrdata® II

This chapter describes the software and hardware required and gives step-by-step instructions to install Corrdata® II.

System Requirements:

Hardware:
500 MHz or faster processor.
256 MB RAM.
1.0 GB available disk space.

Software:
Windows XP with Service Pack (SP3)
Windows Vista with Service Pack (SP1)
Windows 7 with Service Pack (SP1)
Windows 8
SQL Server 2005 or SQL Server 2008.Either Standard or Express.
(SQL Server 2008 Express can be installed by the Install process, if required)

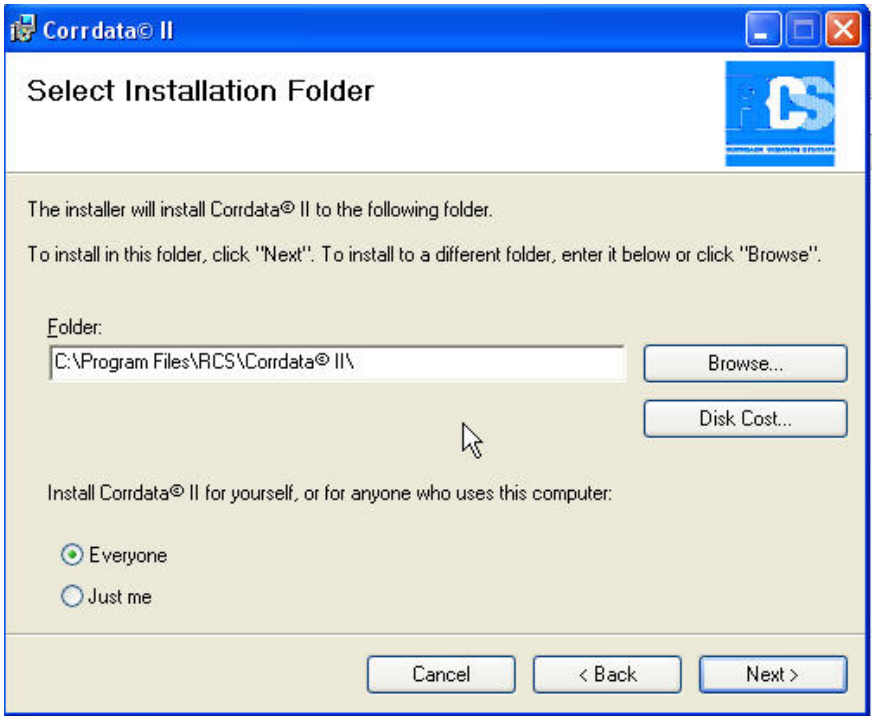
Installation Process:

1. Insert the Corrdata® II CD or Flash Drive into the computer's CD-ROM or USB slot.
2. The software should start the installation process automatically.
   If not;
3. Open up the Windows Explorer and select the CD-ROM or new USB drive letter.
   Double click on the setup program.
4. The following screen is displayed. (The Version will be the current version being installed)

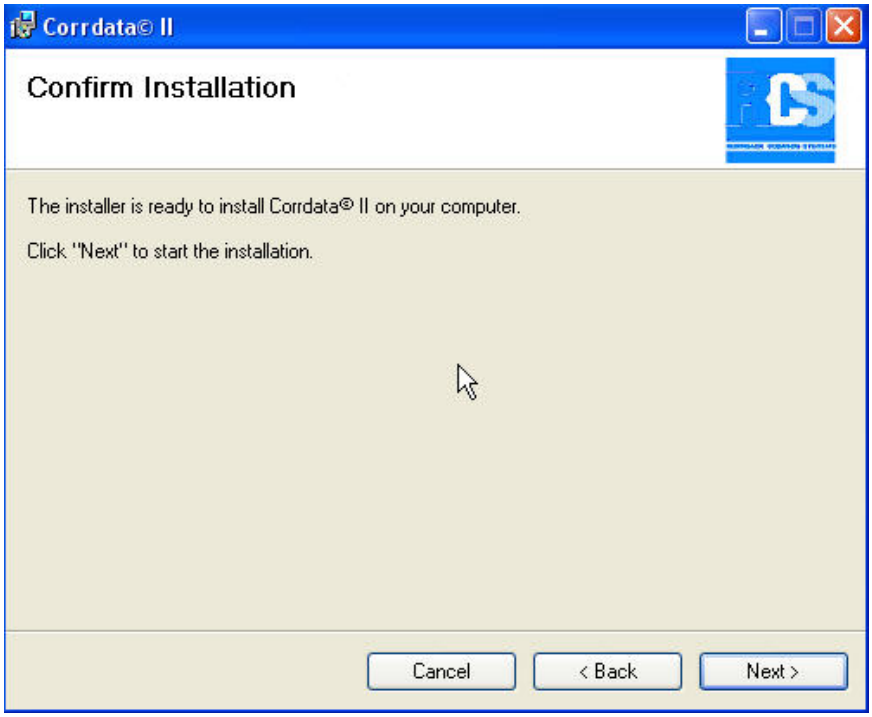
5. Not sure what to install? Click "READ ME" for detailed explanation of Installation Options.

*Note, Windows Installers and .Net may be installed by software package if they do not already exist.

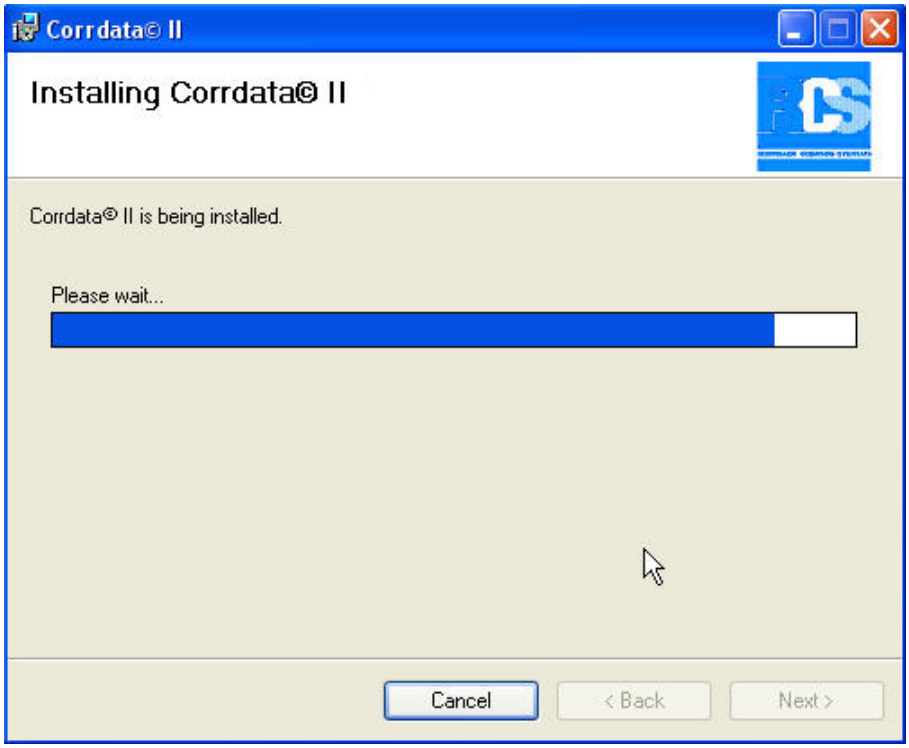
6. Now select installation folder. For default (recommended) Press **Next**.



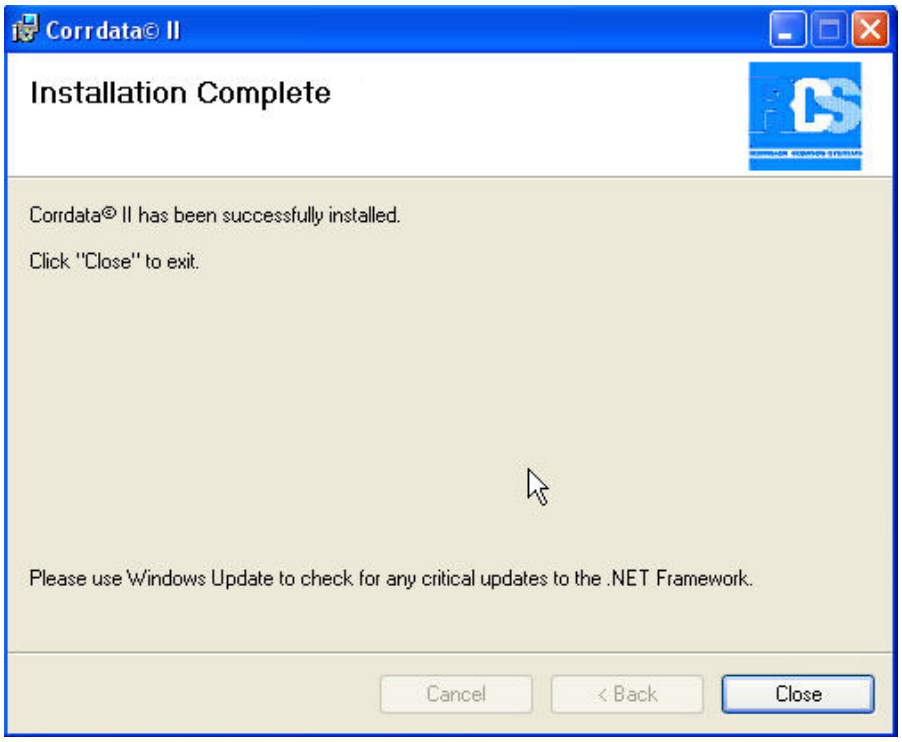
7. Now confirm installation. Press **Next** to continue.



8. Now installing Corrdata® II. Please wait.



9. Installation complete. Press Close.
Installation is complete and Corrdata® II is ready to use.



Chapter 3 Creating and Configuring a New Database

This chapter shows how to build a new Corrdata® II database from scratch. Topics covered include creating an Equipment Layout structure (Tree View), and adding RCS instruments and probes.

Building the Equipment Layout:

Once a database has been created, the **Equipment Layout** needs to be configured. Once the user has logged on to Corrdata® II, the user will be faced with a blank screen and the main toolbar. The first thing to do is to display the **Equipment Layout**. The **Equipment Layout** provides a text and icon based view of all the devices which are contained within the system.

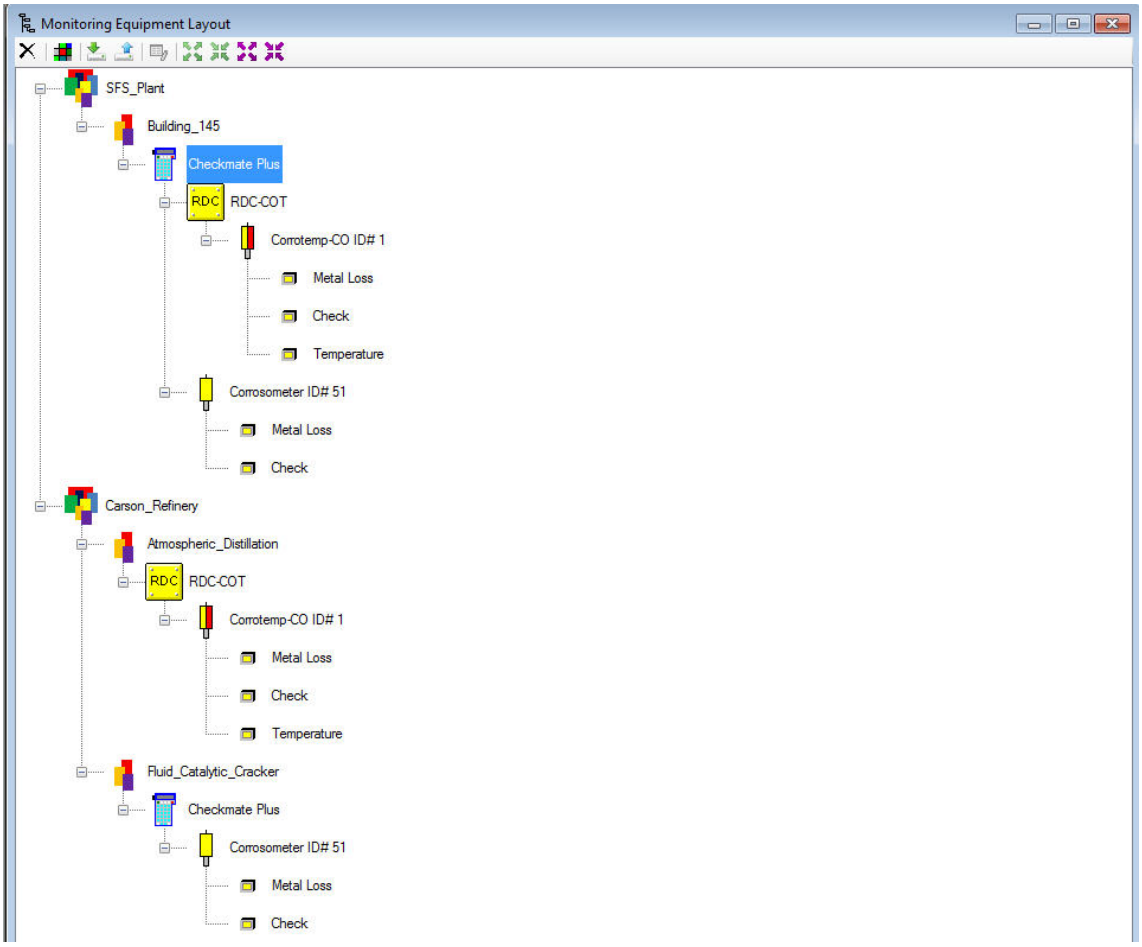
The steps below outline how to configure the **Equipment Layout**.

Steps

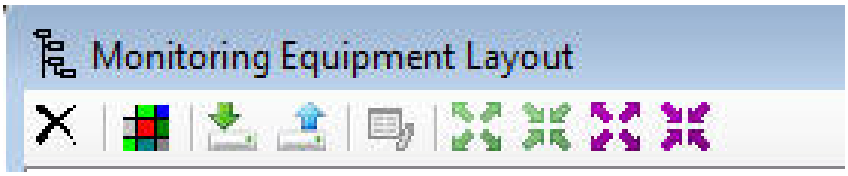
1. Click the **Equipment Layout** icon (left) on the toolbar, or go into the File menu and select **Equipment Layout**.

2. The **Equipment Layout** screen is displayed. The screen is blank initially, because at this stage it contains no devices.

An example of an **Equipment Layout** containing devices is displayed in the image below.



Equipment Layout Toolbar:



Remove Item:

Clicking this icon will remove a node and all children of that node that you have selected on the Equipment Layout screen.

Item Palette:

Clicking this icon will bring up the Palette screen, where you will select Devices and Probes for placing on the Equipment Layout screen.

Download Data from Device:

Clicking this icon will allow you to download from an attached device to the Corrdata®II software database.

Configure Device:

Clicking this icon will allow you to configure an attached device from the Corrdata® II database.

Data Entry (Manual):

Clicking this icon will allow you to enter data to a selected probe on the Equipment Layout screen. This can be used for correcting data or entering data into a manual entry device, such as the CK-4.

Expand All:

Clicking this icon will expand the Tree view. The F5 key is also a short-cut.

Collapse All:

Clicking this icon will collapse the Tree view. The F6 key is also a short-cut.

Expand Node:

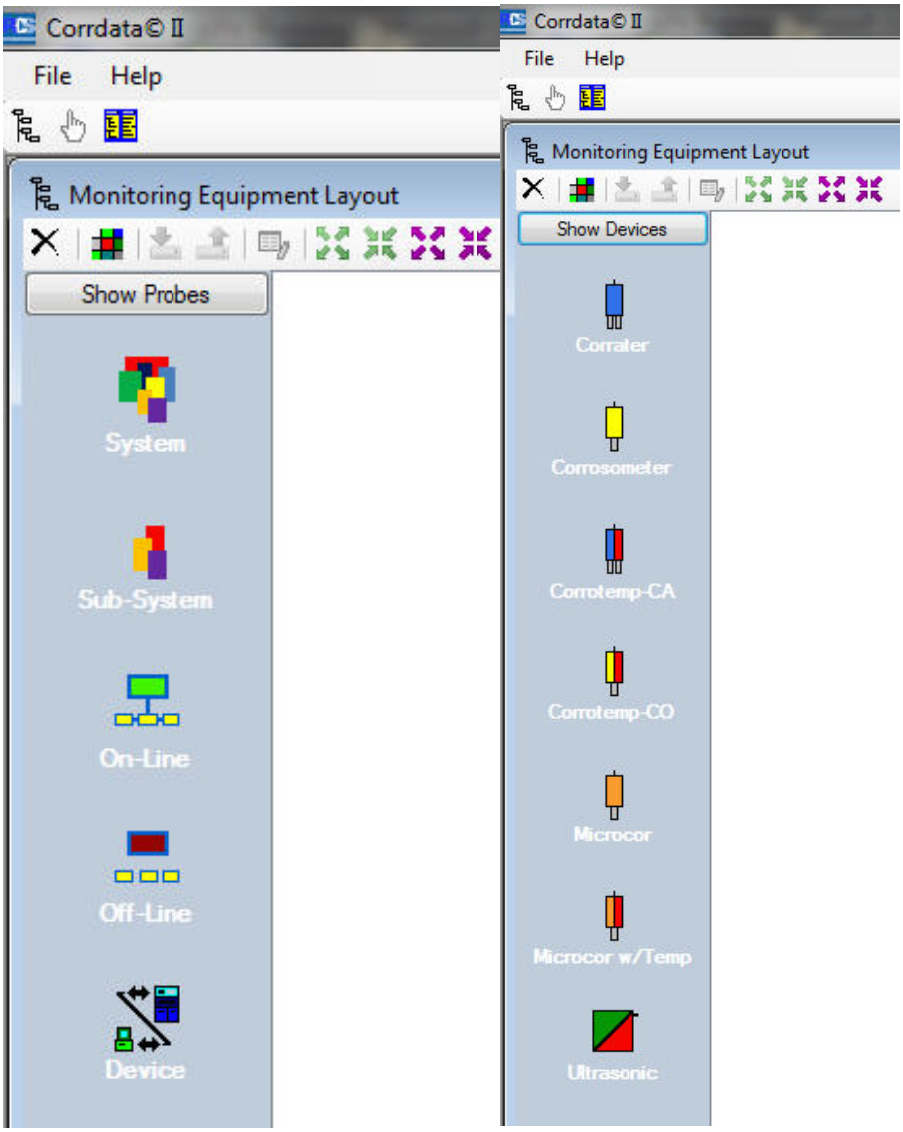
Clicking this icon will expand the selected Node. The F7 key is also a short-cut.

Collapse Node:

Clicking this icon will collapse the selected Node. The F8 key is also a short-cut.

Item Palette:

Palette Screen:



System:

You Drag and Drop the System onto the Equipment Layout screen. At least one System is required to be dropped on the Equipment Layout screen. The System can only be dropped on the main screen, and not on any other item.

Sub-System:

You Drag and Drop the Sub-System onto a System or another Sub-System. Sub-Systems are not required to be used. You can only drop Sub-Systems on a System or another Sub-System.

On-Line:

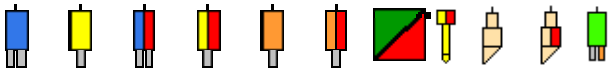
The On-Line is a Device group for holding On-Line Devices, e.g., Microcor® System (MT-9485). The On-Line group is not required for On-Line devices to be used. The On-Line can be dropped on Systems or Sub-Systems.

Off-Line:

The Off-Line is a Device group for holding Off-Line Devices, e.g., Checkmate™, RDC, and CK-4. The Off-Line group is not required for Off-Line devices to be used. The Off-Line can be dropped on Systems or Sub-Systems.

Device:

The Device is used to drop a device, e.g., Corrdata System (E9020), Checkmate™ Plus, and Aquamate on the Equipment Layout screen. A Device may be dropped and in some cases other devices. When the Device is dropped a dialog window will pop-up for you to select the actual device to use.

Probes: 

Probes can only be dropped on devices and then only if the device accepts the type of probe being dropped. When a probe is dropped it will show the measurement attributes for that probe, e.g., Metal Loss, Temperature.

Devices:

Off-Line Devices:

Mates:

All Mates, i.e., Checkmate™, Checkmate™ Plus, Checkmate™ DL-Corrdata, Checkmate™ DL-Microcor®, Mate, Mate II, and Ultracorr® may be dropped on a System, Sub-System, or Off-Line group.

RDCs:

All RDCs, i.e.,RDC-CA, RDC-CAT, RDC-CA, RDC-COT, RDC4-COT, and 9030 Plus, may be dropped on a System, Sub-System, or Off-Line group.

All RDC's except the 9030 Plus may also be dropped on the Following Mates, i.e., Checkmate™ Plus, Checkmate™ DL-Corrdata, Mate, and Mate II.

ML-9500 Data Logger + MT-9485 Transmitter:

The ML-9500 Logger + MT-9485 Transmitter may be dropped on a System, Sub-System, or Off-Line group.

Down Hole Tool:

The Down Hole Tool may be dropped on a System, Sub-System, or Off-Line group.

Manual Entry Devices:

All Manual Entry Device, i.e., 9000 – 9000 Plus, Aquamate, CK-3, and CK-4, may be dropped on a System, Sub-System, or Off-Line group.

On-Line Devices:

Microcor® System (MT-9485), Corrdata System (E9020)& Microcor® Sand Transmitter (ST-9485):

The Microcor® System (MT-9485), Corrdata System (E9020), and Microcor®Sand Transmitter (ST-9485) may be dropped on a System, Sub-System, or On-Line group.

Probes:

Corrater®:

The Corrater® probe may be dropped on the following devices: Mate II, RDC-CA,RDC-CAT, 9030 Plus, Corrdata (On-Line) System (E9020), 9000 – 9000 Plus, and the Aquamate.

Corrosometer®:

The Corrosometer® probe may be dropped on the following devices: Checkmate™, Checkmate™ Plus, Mate II, RDC-CO, RDC-COT, RDC4-COT, CK-3 and the CK-4.

Corrotemp®-CA:

The Corrotemp®-CA probe may be dropped on the following devices: RDC-CAT, 9030 Plus, Corrdata (On-Line) System (E9020), and the Aquamate.

Corrotemp®-CO:

The Corrotemp®-CO probe may be dropped on the following devices: Mate II, RDC-COT, RDC4-COT, and the CK-4.

Microcor®:

The Microcor® probe may be dropped on the following devices: ML-9500 Data Logger + MT-9485 Transmitter, and the Microcor® System (MT-9485).

Microcor® w/Temp:

The Microcor® w/Temp probe may be dropped on the Microcor® System (MT-9485).

Ultrasonic:

The Ultrasonic probe may be dropped on the Ultracorr®.

Down Hole Probe:

The Down Hole Probe may be dropped on the Down Hole Tool only.

Sand Probe:

The Sand Probe may be dropped on the Microcor®Sand Transmitter (ST-9485) only.

Sand Probe w/Temp:

The Sand Probe with Temperature may be dropped on the Microcor®Sand Transmitter (ST-9485) only.

Galvanic Probe:

The Galvanic Probe may be dropped on the following: RDC-CA, RDC-CAT, and the Corrdata (On-Line) System (E9020).

Chapter 4 Measurement Devices

This chapter shows each measurement device, functions of device, and how to download data from the device to the Corrdata® II software.

Devices:

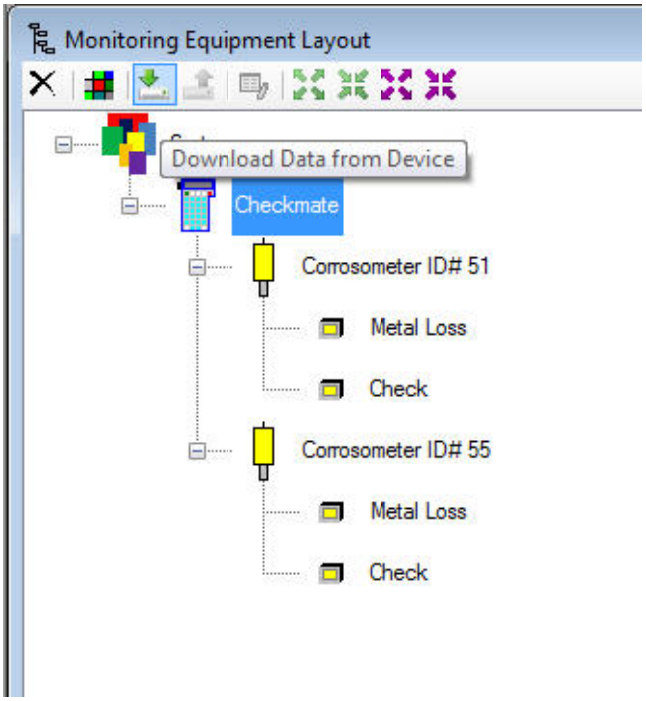
Checkmate™:

The Checkmate™ is capable of reading all Corrosometer® corrosion probes. The Checkmate™ can store readings for up to 205 individual probes, with 10 reading per probe.

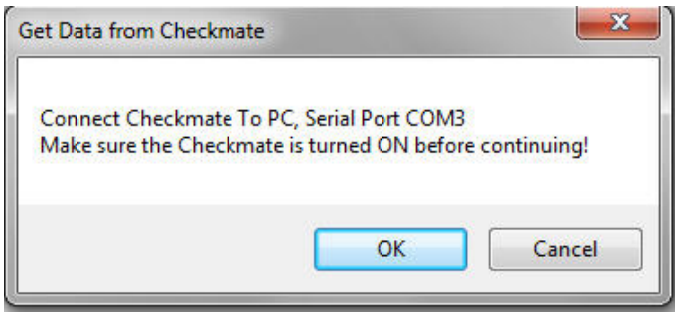
The Checkmate™ will accept the Corrosometer® Probe.

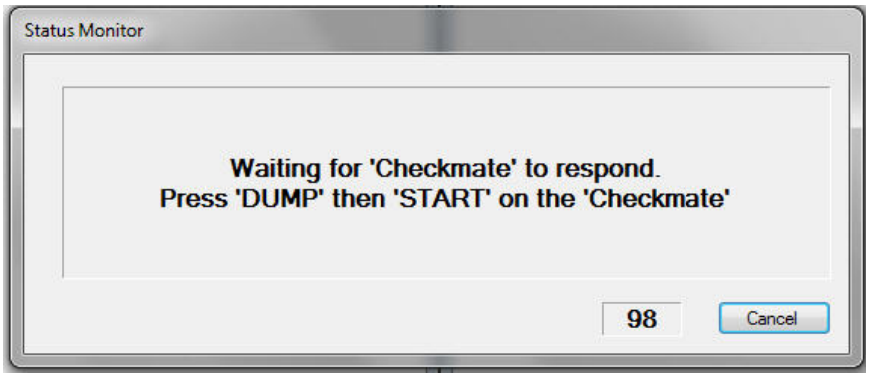
How to download data from the Checkmate™.

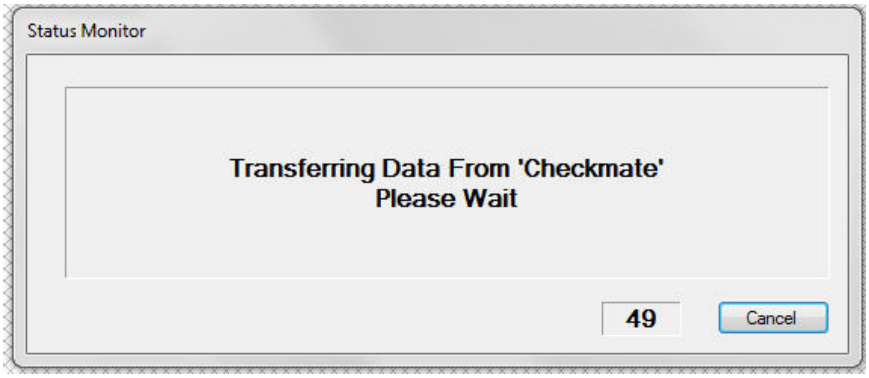
1. Connect the Checkmate™ to the appropriate com port. The example is using COM3.
2. Select the 'Download Data from Device' icon as shown below.

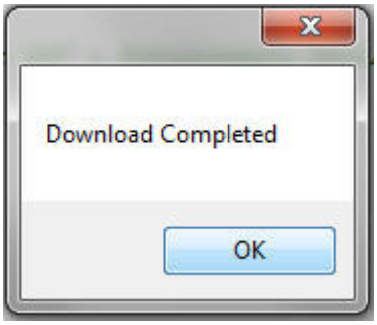


3. Follow instructions as shown on screens below.









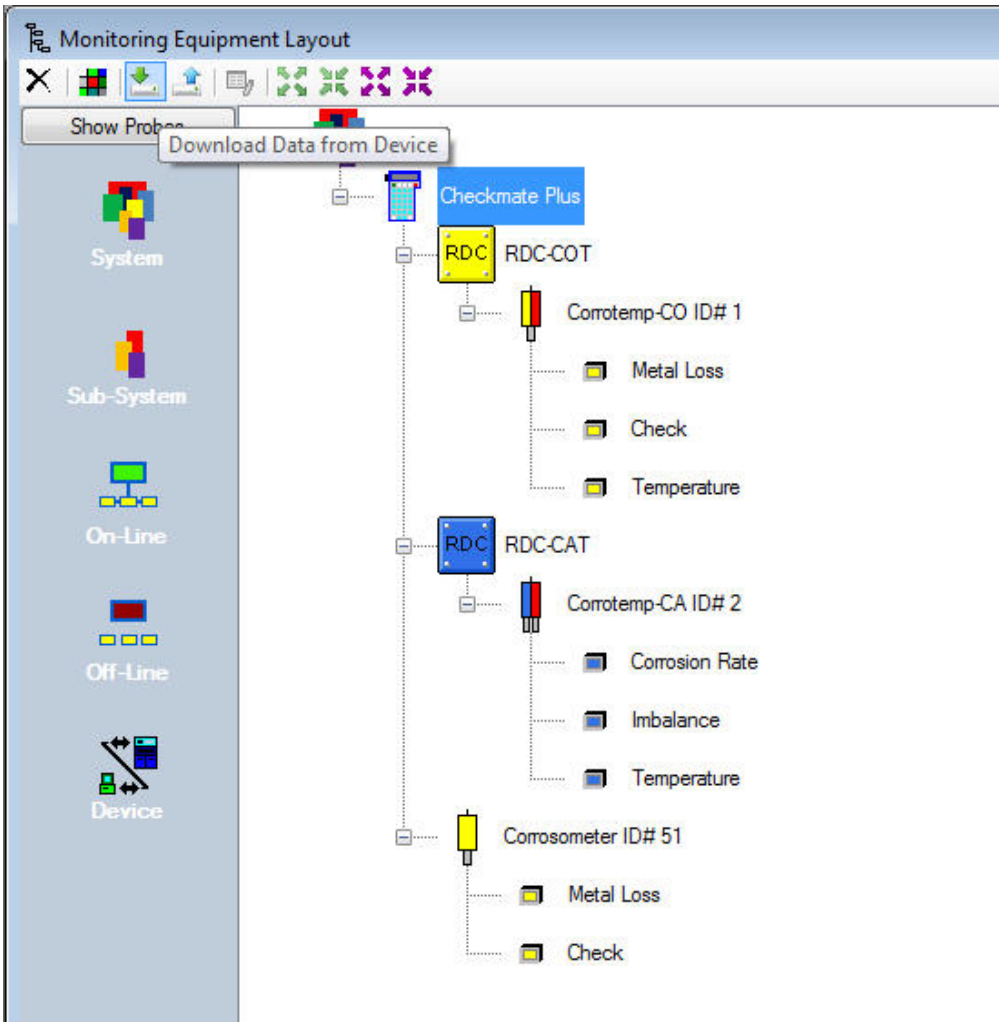
Checkmate™ Plus:

The Checkmate™ Plus is capable of reading all Corrosometer® corrosion probes and all RDC units.
The Checkmate™ can store readings for up to 205 individual probes, with 10 reading per probe.

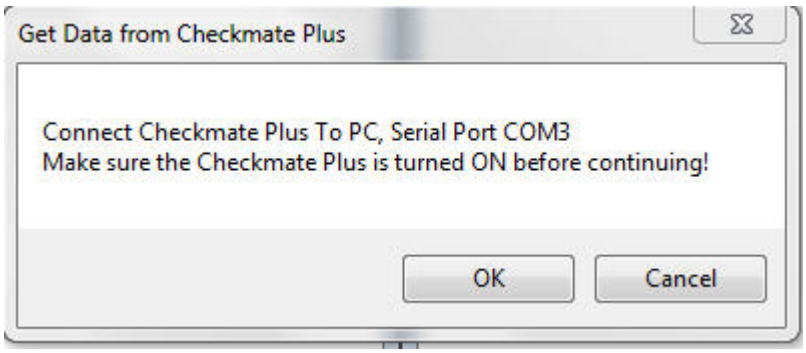
The Checkmate™ Plus will accept the Corrosometer® Probe. , the RDC-CA & RDC-CAT , the RDC-CO & RDC-OCT , and the RDC4-COT .

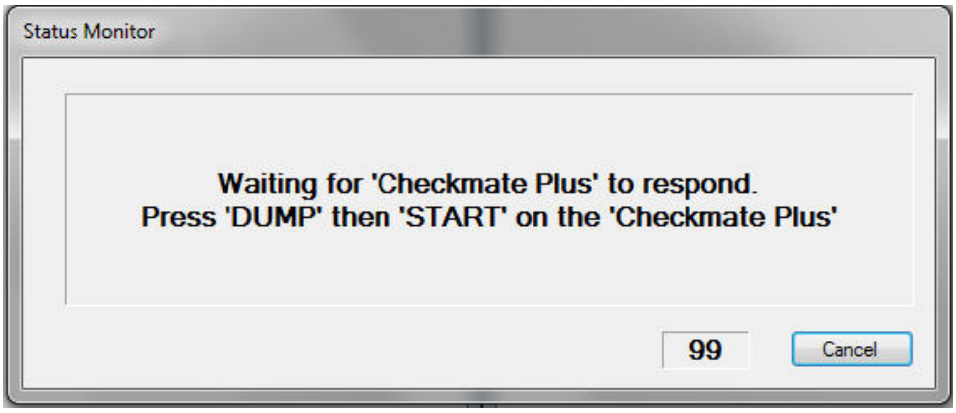
How to download data from the Checkmate™ Plus.

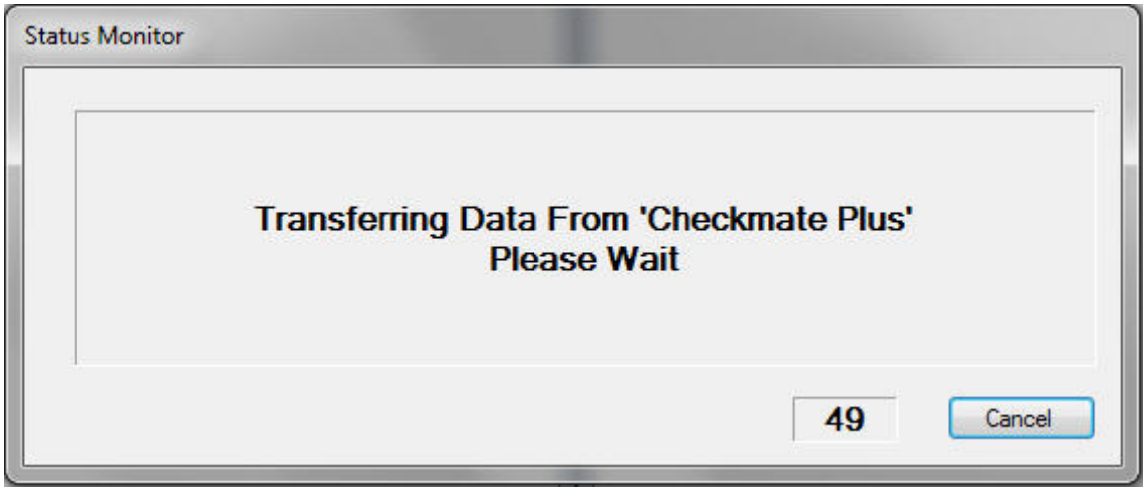
1. Connect the Checkmate™ Plus to the appropriate com port. The example is using COM3.
2. Select the 'Download Data from Device' icon as shown below.

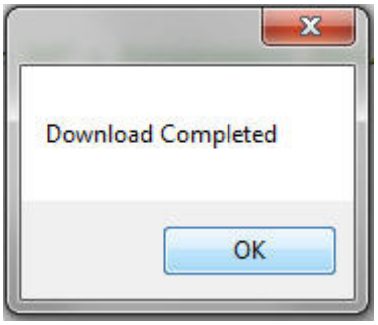


3. Follow instructions as shown on screens below.









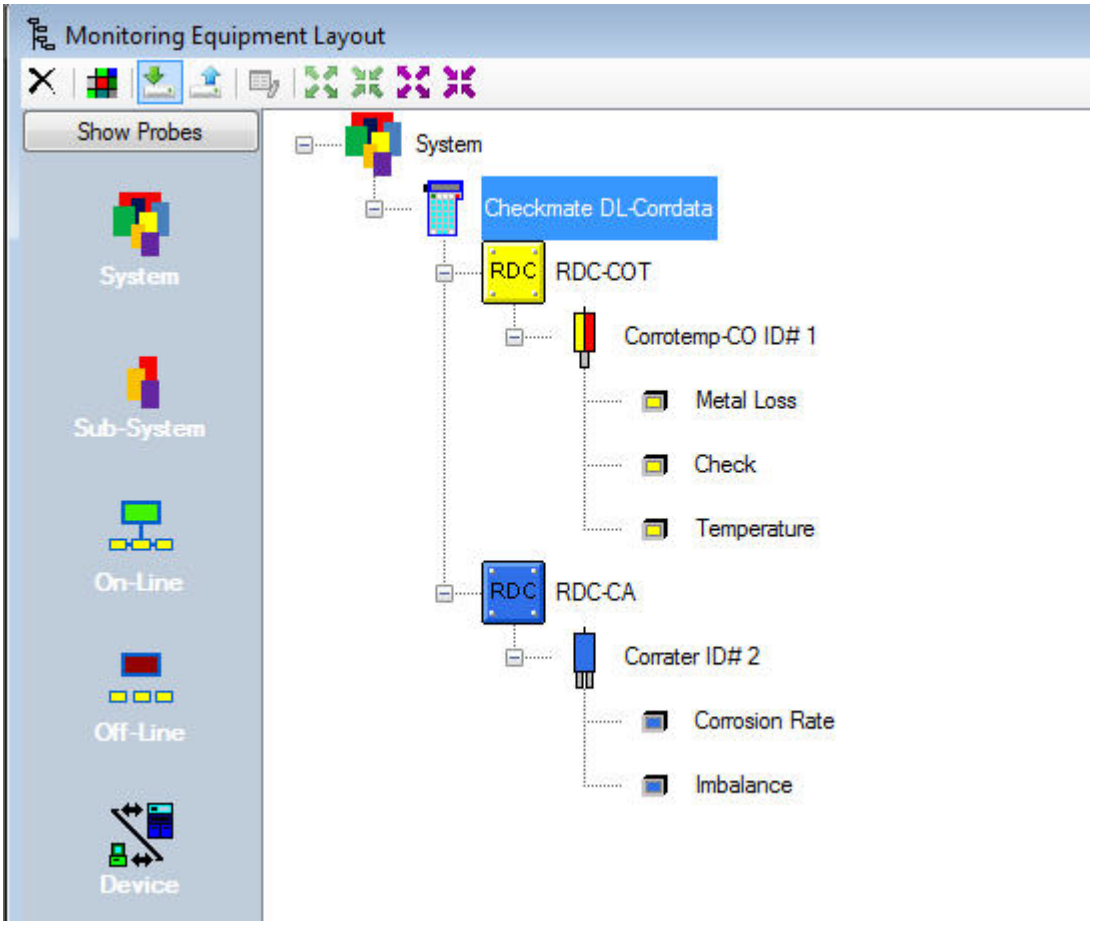
Checkmate™ DL-Corrdata:

The Checkmate™ DL-Corrdata is capable of reading data from all RDC units.

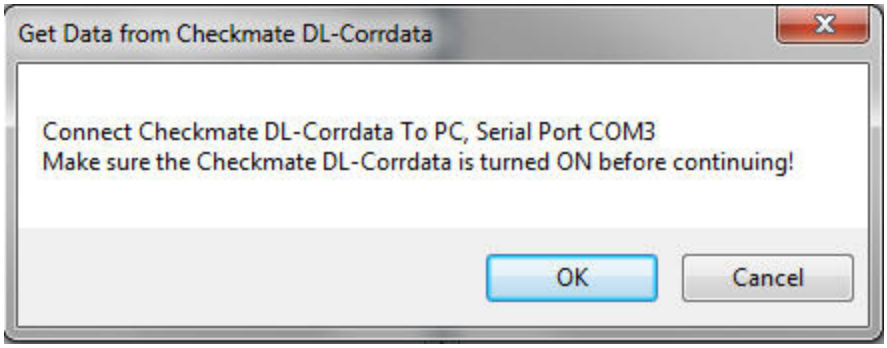
The Checkmate™ DL-Corrdata will accept RDC-CA & RDC-CAT, the RDC-CO & RDC-OCT, and the RDC4-COT.

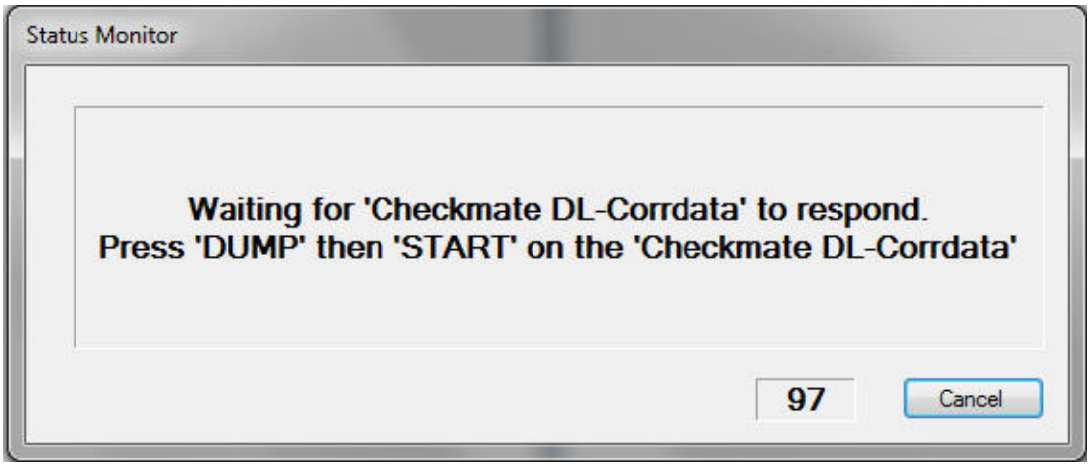
How to download data from the Checkmate™ DL-Corrdata.

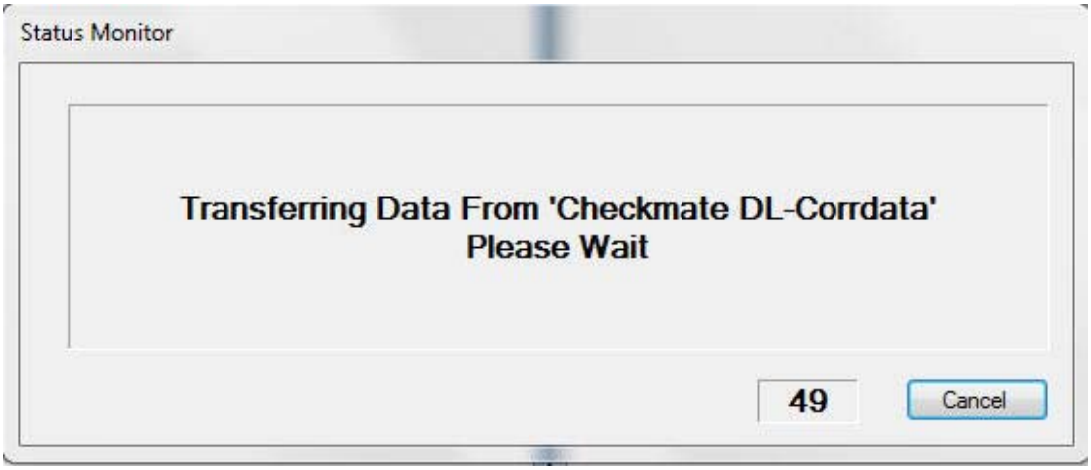
1. Connect the Checkmate™DL-Corrdata to the appropriate com port. The example is using COM3.
2. Select the 'Download Data from Device' icon as shown below.

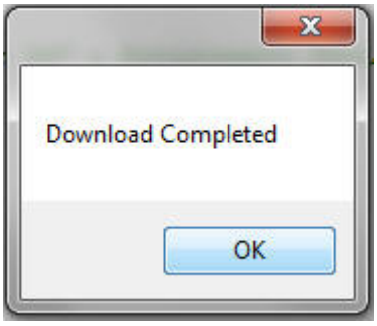


3. Follow instructions as shown on screens below.









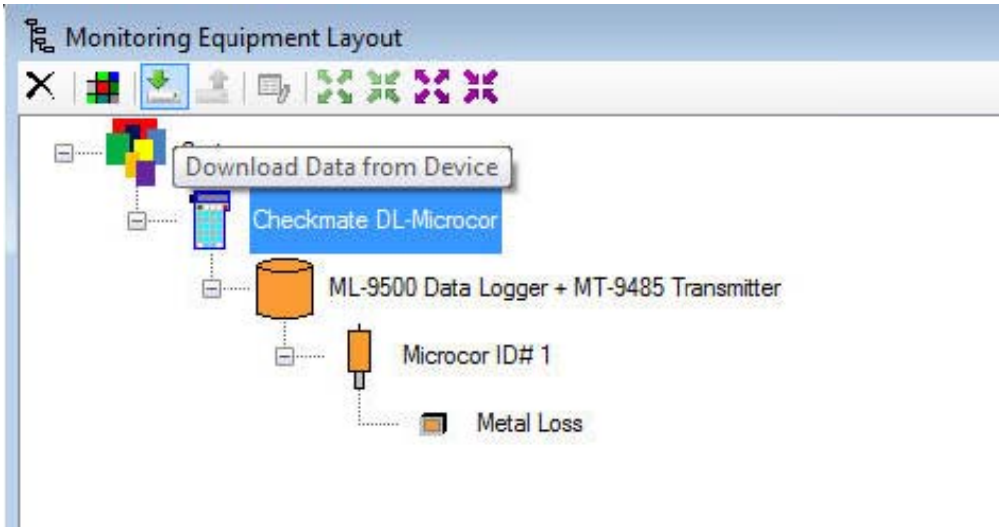
Checkmate™ DL-Microcor:

The Checkmate™ DL-Microcor is capable of reading data from the Microcor Data Logger. The Checkmate™ DL-Microcor can hold 57,330 Microcor Data Logger readings.

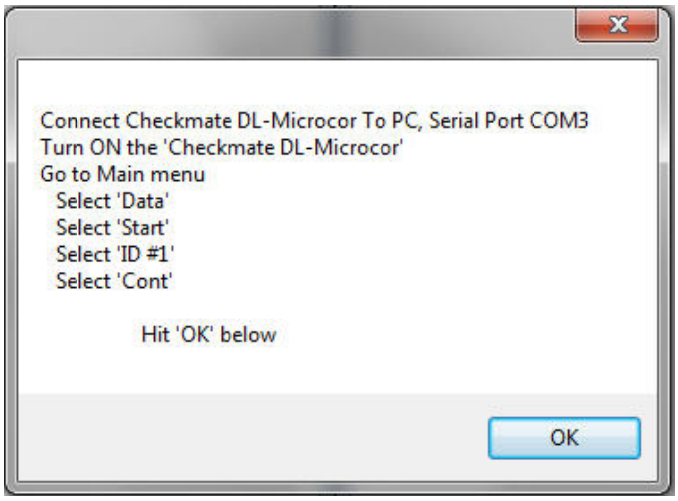
The Checkmate™ DL-Microcor will accept the ML-9500 Data Logger + MT-9485 Transmitter.

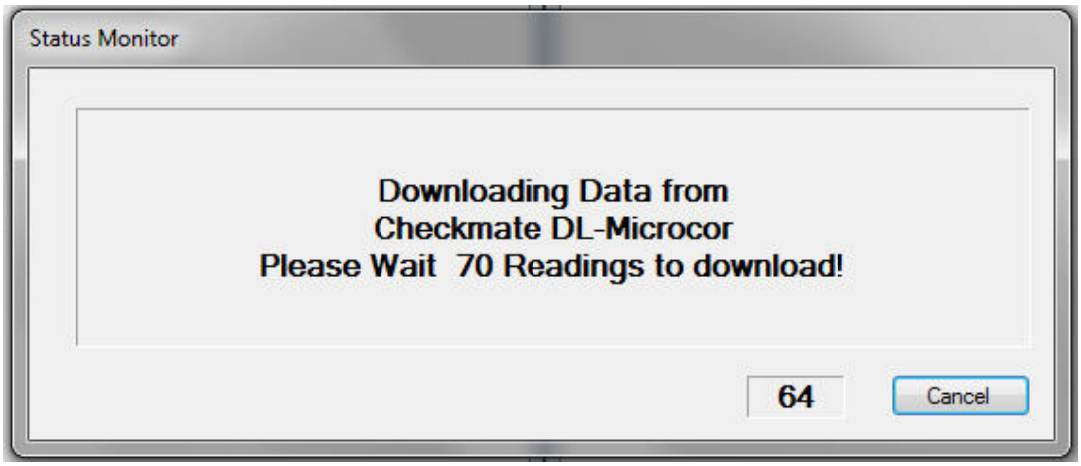
How to download data from the Checkmate™ DL-Microcor.

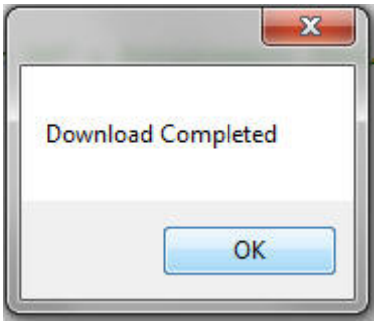
1. Connect the Checkmate™ DL-Microcor to the appropriate com port. The example is using COM3 and Microcor Logger set to ID #1.
2. Select the 'Download Data from Device' icon as shown below.



3. Follow instructions as shown on screens below.







Mate :

The Mate is capable of reading data from all RDC units.

The Mate II will accept RDC-CA & RDC-CAT

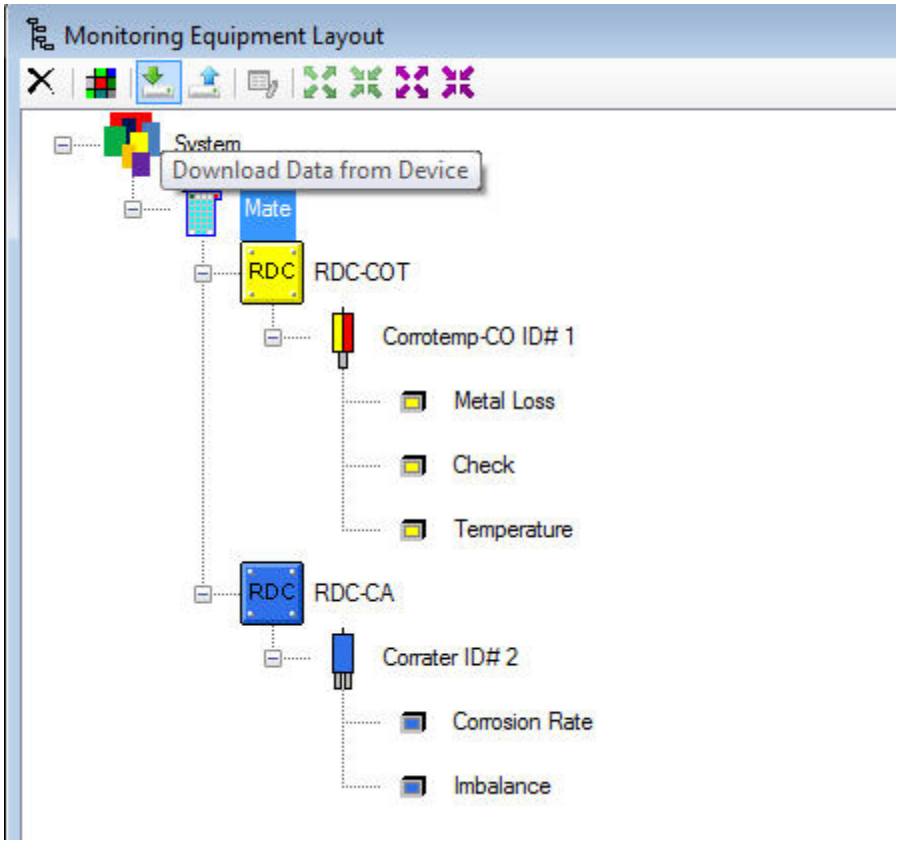
, the RDC-CO & RDC-OCT

, and the RDC4-COT

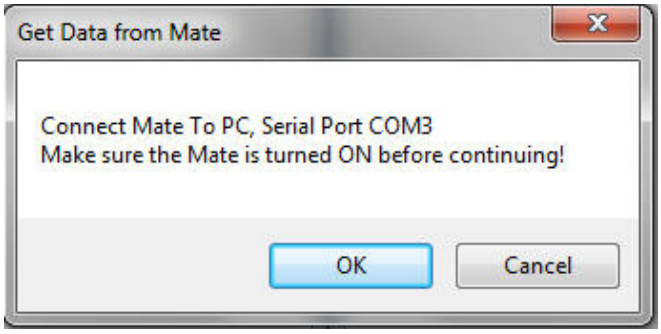
.

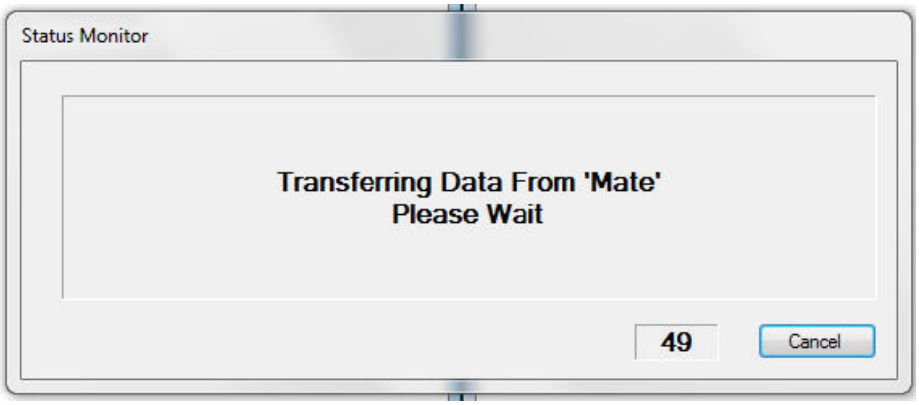
How to download data from the Mate.

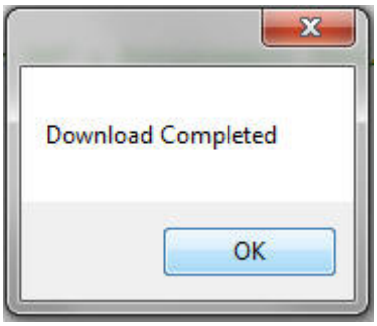
1. Connect the Mate to the appropriate com port. The example is using COM3.
2. Select the ‘Download Data from Device’ icon as shown below.



1. Follow instructions as shown on screens below.







Mate II:

The Mate II is capable of reading data from all RDC units, all Corrosometer® probes, all Corrotemp™, Corrosometer probes, and all Corrater® probes.

The Mate II will accept RDC-CA & RDC-CAT

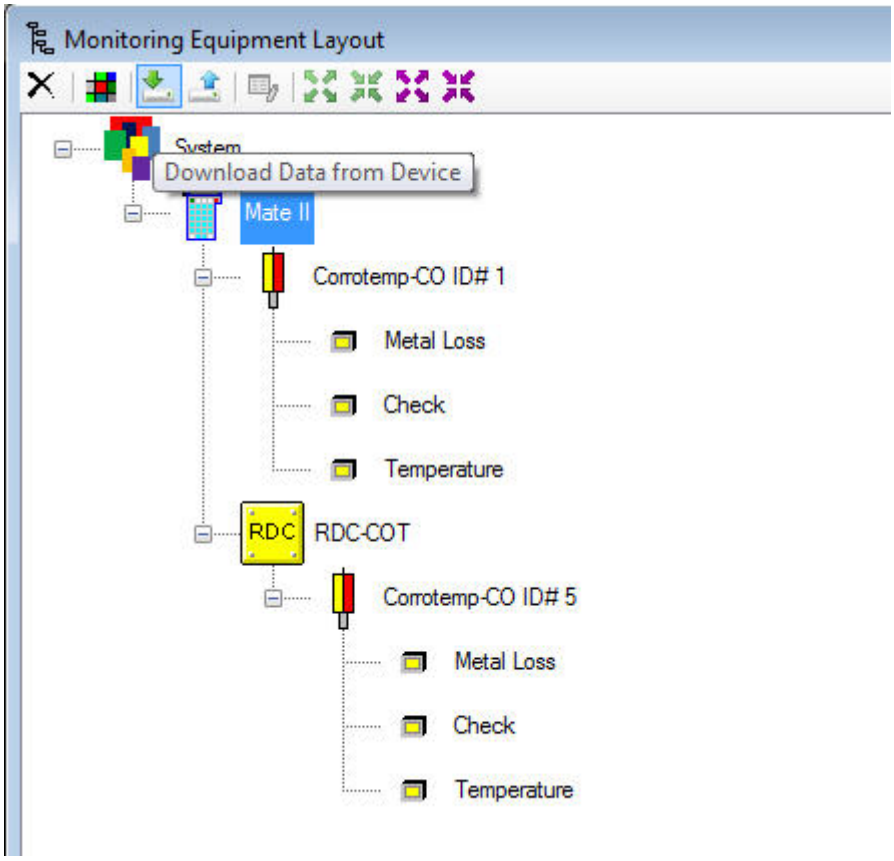
, the RDC-CO & RDC-OCT

, the RDC4-COT

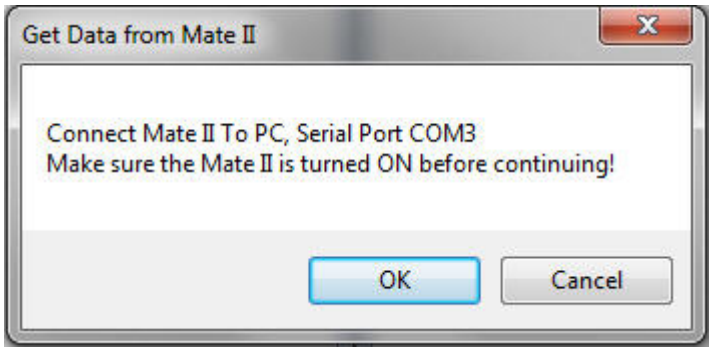
, the Corrater™ probe
, the Corrosometer™ probe
, and the Corrotemp™ -CO probe
.

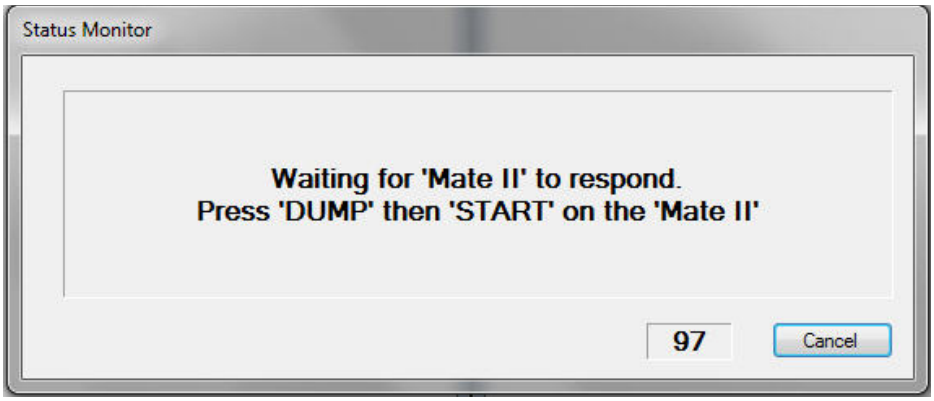
How to download data from the Mate II.

2. Connect the Mate II to the appropriate com port. The example is using COM3.
3. Select the ‘Download Data from Device’ icon as shown below.

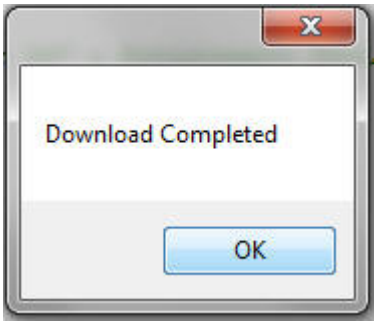


4. Follow instructions as shown on screens below.




Status Monitor
Waiting for 'Mate II' to respond.
Press 'DUMP' then 'START' on the 'Mate II'
97
Cancel

Status Monitor
Transferring Data From 'Mate II'
Please Wait
49
Cancel


Download Completed
OK

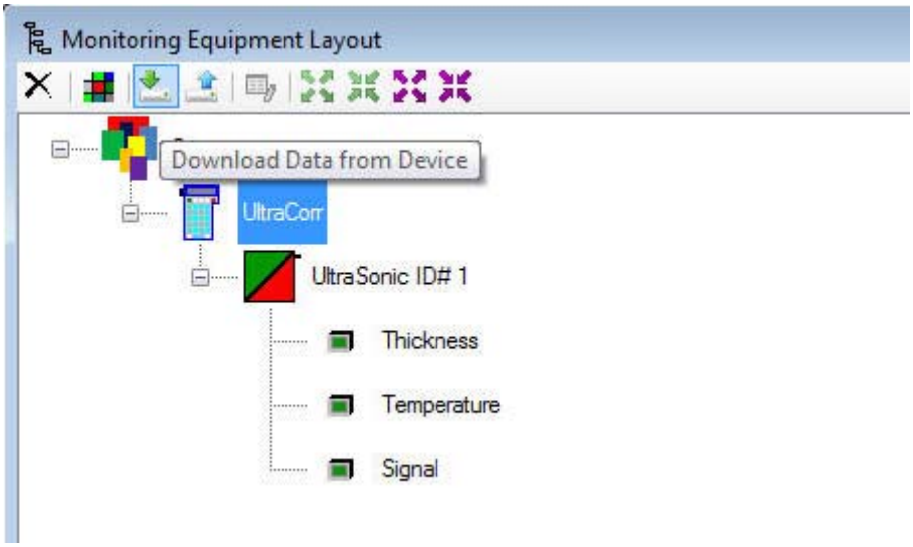
Ultracorr®:

The Ultracorr® is capable of reading thickness and temperature measurements from the Ultracorr® Transducer. The Ultracorr® can store reading for up to 50 transducers, with up to 256 readings per transducer.

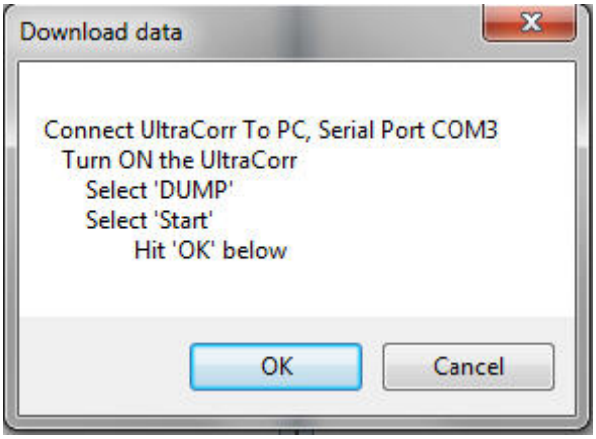
The Ultracorr®will acceptthe Ultrasonic probe .

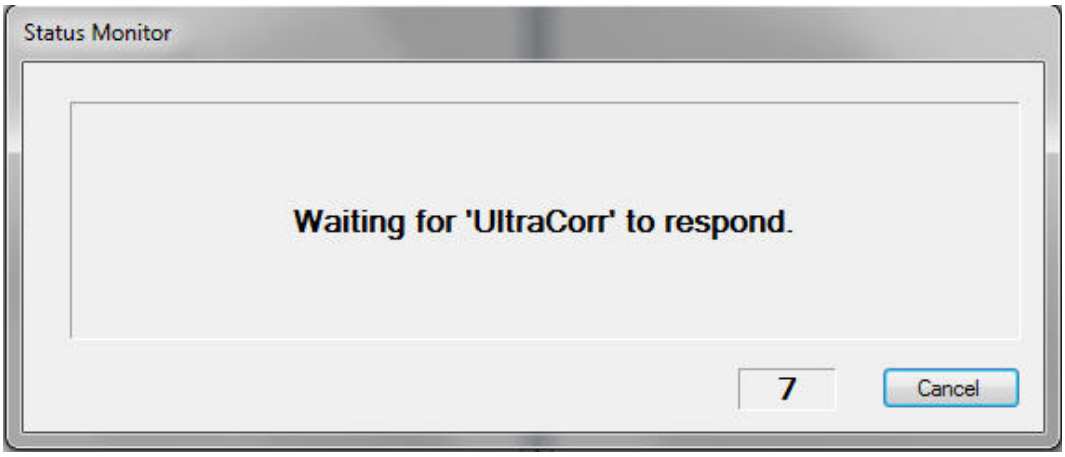
How to download data from the Mate II.

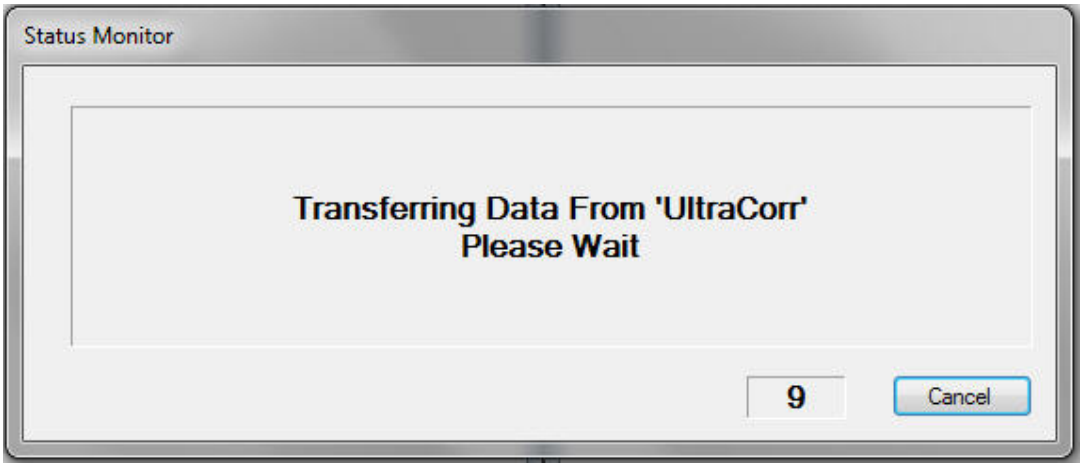
1. Connect the Ultracorr® to the appropriate com port. The example is using COM3.
2. Select the 'Download Data from Device' icon as shown below.

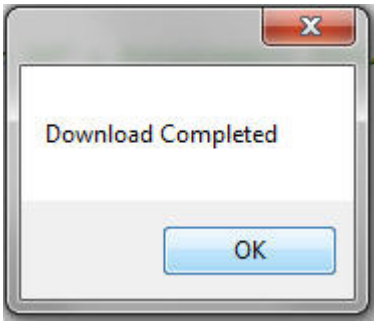


3. Follow instructions as shown on screens below.




Status Monitor
Waiting for 'UltraCorr' to respond.
7
Cancel


Status Monitor
Transferring Data From 'UltraCorr'
Please Wait
9
Cancel


Download Completed
OK

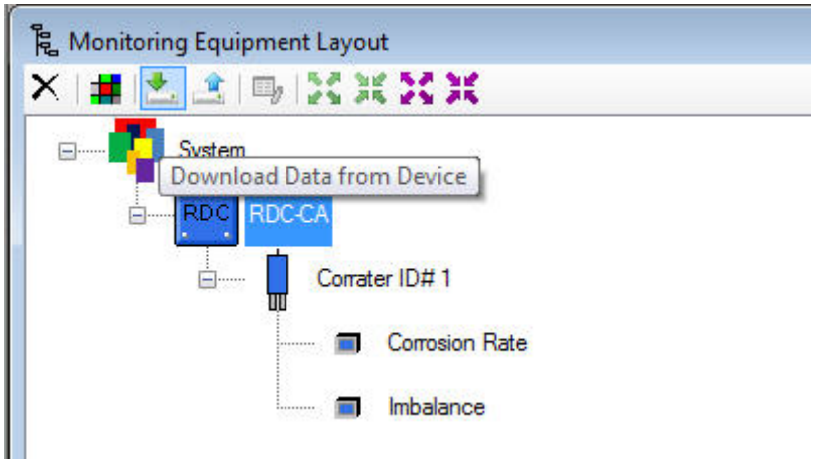
RDC-CA:

The RDC-CA reads the Corrater® probe (Rate & Imbalance). The RDC-CA can store readings for one probe, with up to 1023 readings.

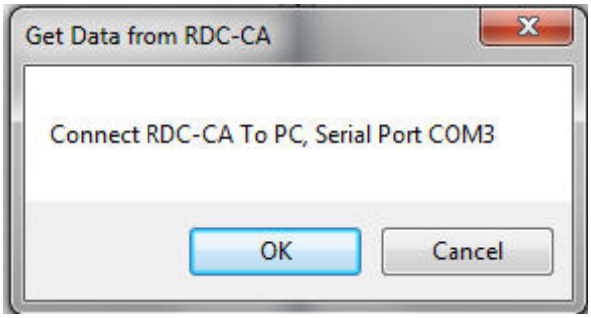
The RDC-CA will accept the Corrater®probe .

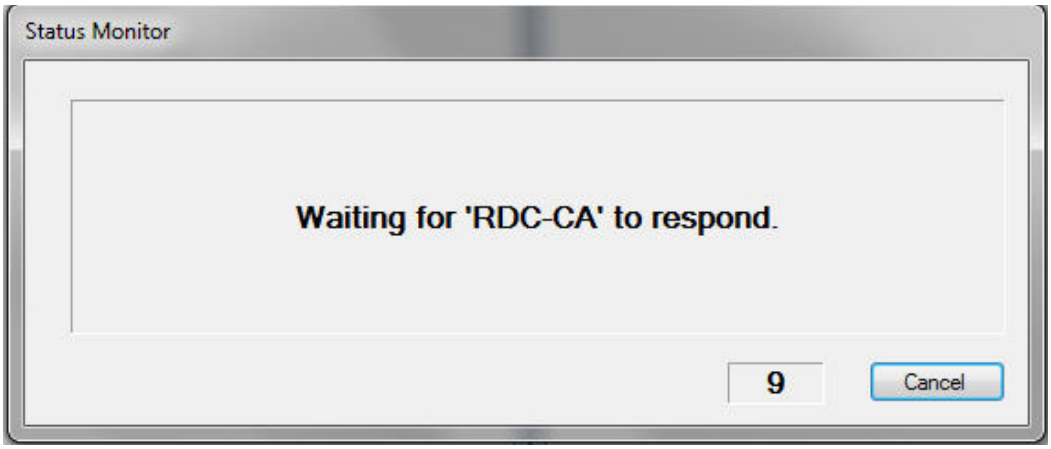
How to download data from the RDC-CA.

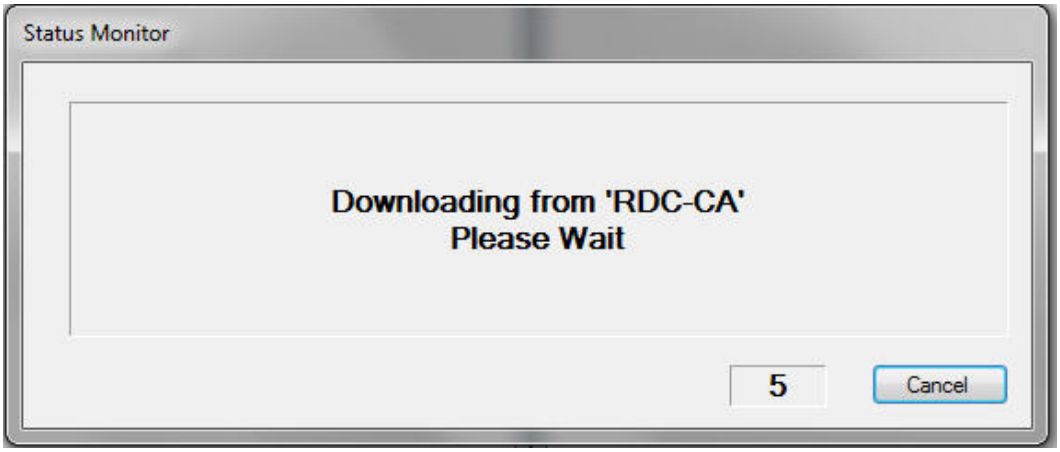
1. Connect the RDC-CAto the appropriate com port. The example is using COM3.
2. Select the 'Download Data from Device' icon as shown below.

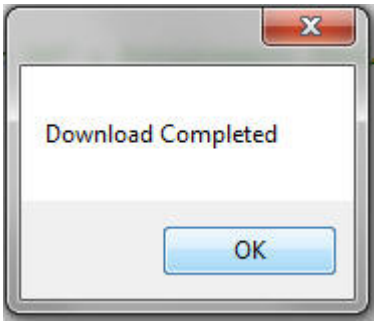


3. Follow instructions as shown on screens below.




Status Monitor
Waiting for 'RDC-CA' to respond.
9
Cancel


Status Monitor
Downloading from 'RDC-CA'
Please Wait
5
Cancel


Download Completed
OK

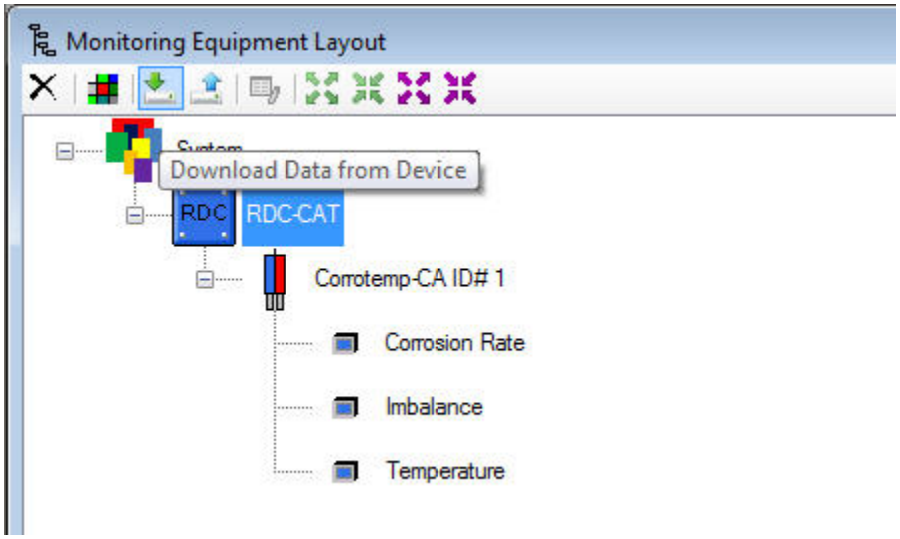
RDC-CAT:

The RDC-CAT reads the Corrater® probe (Rate & Imbalance), and the Corrotemp®-CA probe (Rate, Imbalance, and Temperature). The RDC-CAT can store readings for one probe, with up to 1023 readings reading for the Corrater® probe and 511 readings for the Corrotemp®-CA probe.

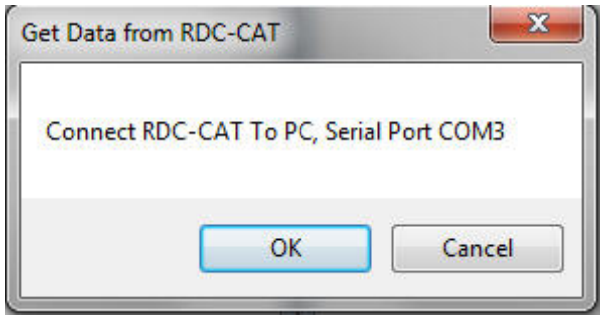
The RDC-CAT will accept the Corrater® probe and the Corrater® Corrotemp®-CA probe .

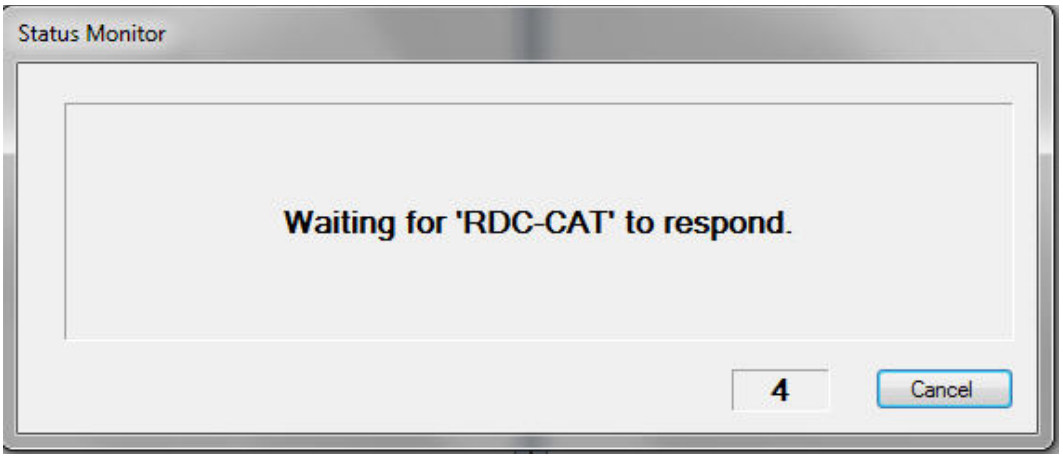
How to download data from the RDC-CAT.

1. Connect the RDC-CATto the appropriate com port. The example is using COM3.
2. Select the 'Download Data from Device' icon as shown below.

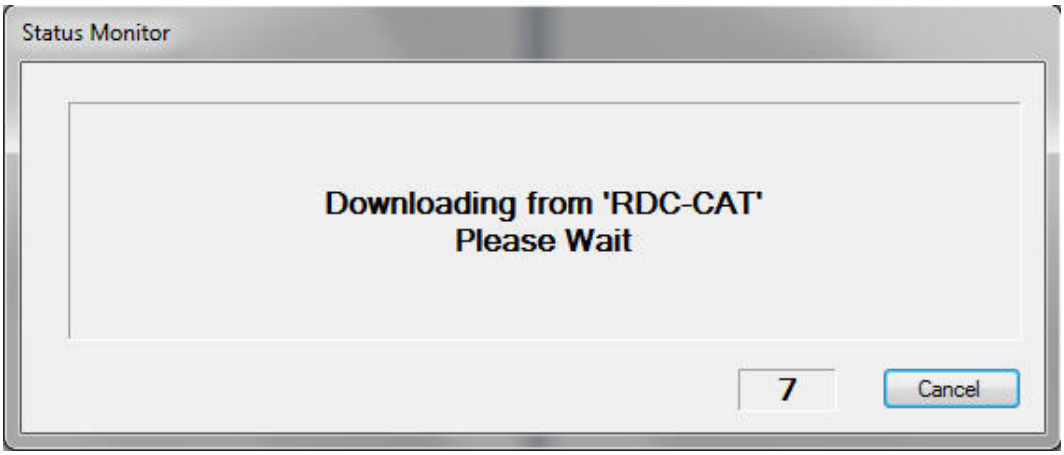


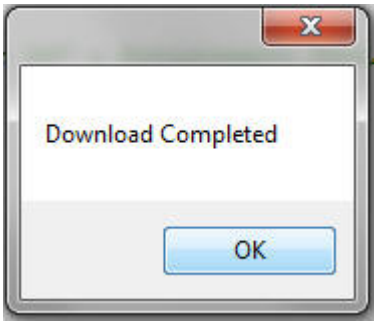
3. Follow instructions as shown on screens below.




Status Monitor
Waiting for 'RDC-CAT' to respond.
4
Cancel

-


Status Monitor
Downloading from 'RDC-CAT'
Please Wait
7
Cancel


Download Completed
OK

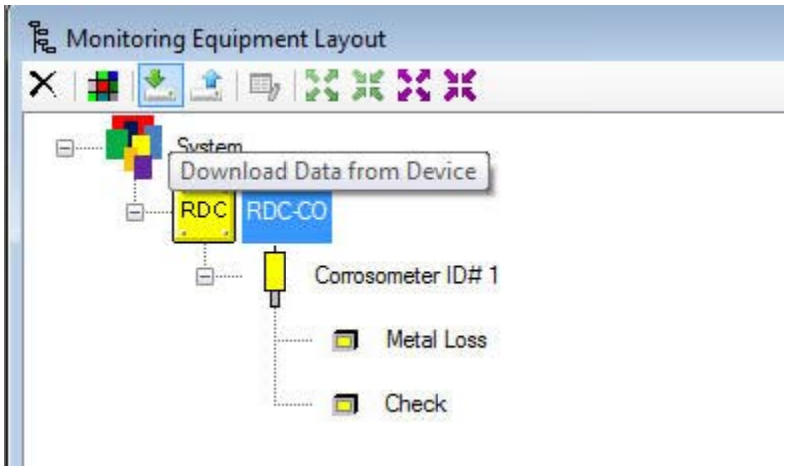
RDC-CO:

The RDC-CO reads the Corrosometer® probe (Metal Loss and Check status). The RDC-CO can store readings for one probe, with up to 2048 readings.

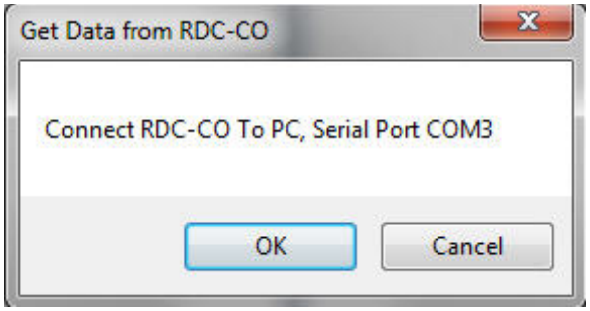
The RDC-CO will accept the Corrosometer® probe .

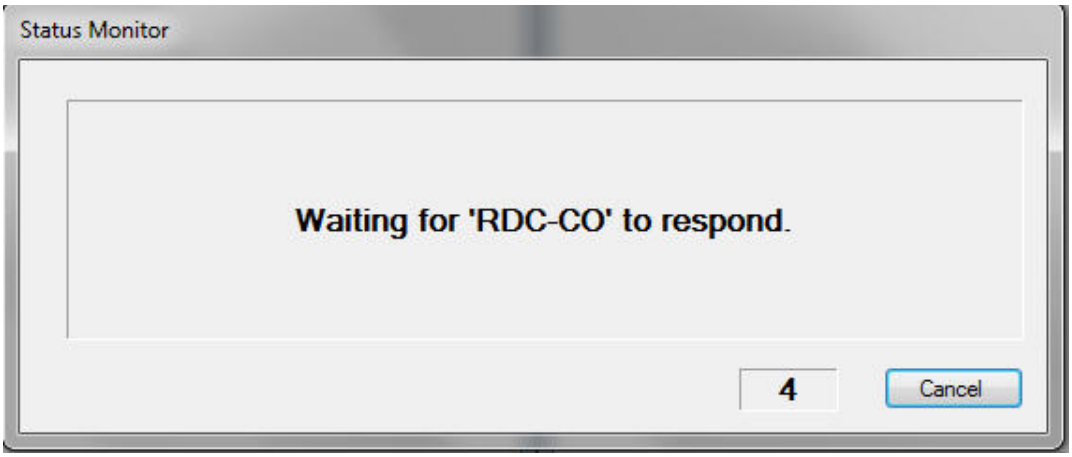
How to download data from the RDC-CO.

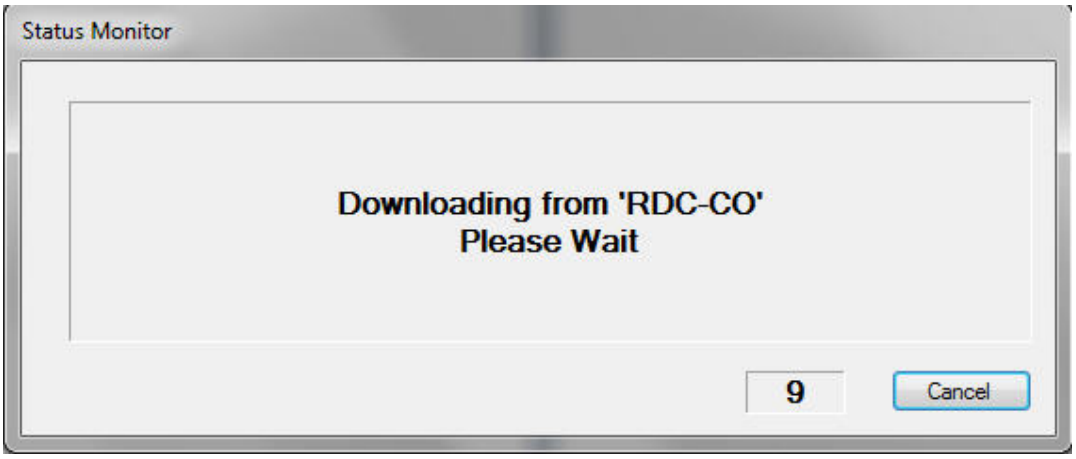
1. Connect the RDC-COto the appropriate com port. The example is using COM3.
2. Select the 'Download Data from Device' icon as shown below.

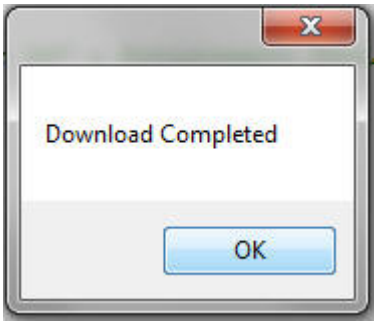


3. Follow instructions as shown on screens below.




Status Monitor
Waiting for 'RDC-CO' to respond.
4
Cancel


Status Monitor
Downloading from 'RDC-CO'
Please Wait
9
Cancel


Download Completed
OK

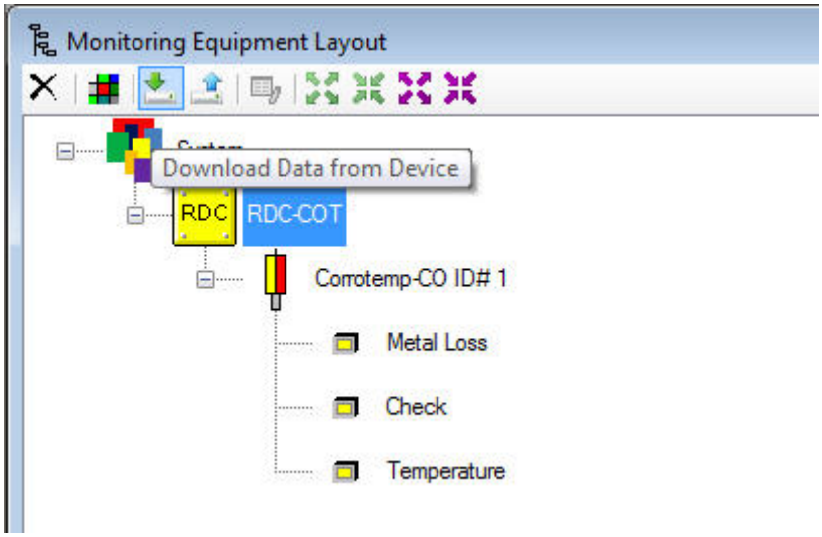
RDC-COT:

The RDC-COT reads the Corrosometer® probe (Metal Loss and Check status), and the Corrosometer® Corrotemp® probe (Metal Loss, Check status, and Temperature). The RDC-COT can store 2048 readings for the Corrosometer® probe, and 1024 readings for the Corrosometer® Corrotemp® probe.

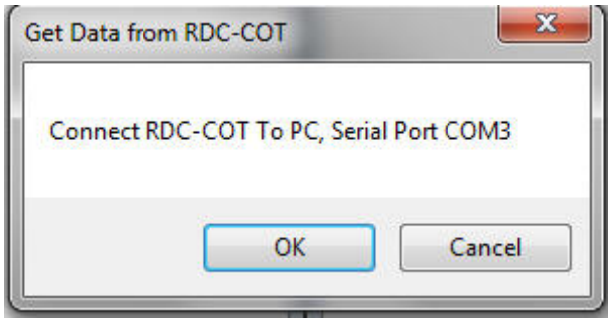
The RDC-COT will accept the Corrosometer® probe and the Corrotemp®-CO probe .

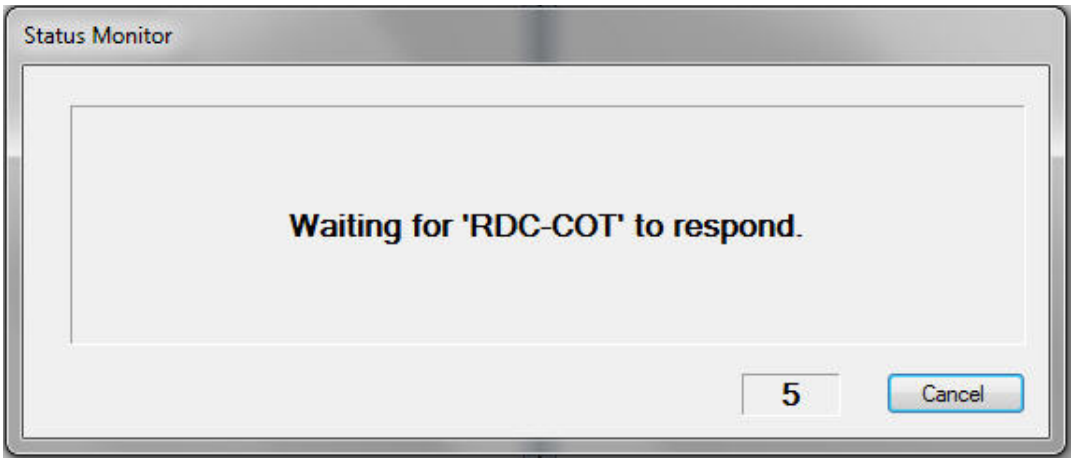
How to download data from the RDC-COT.

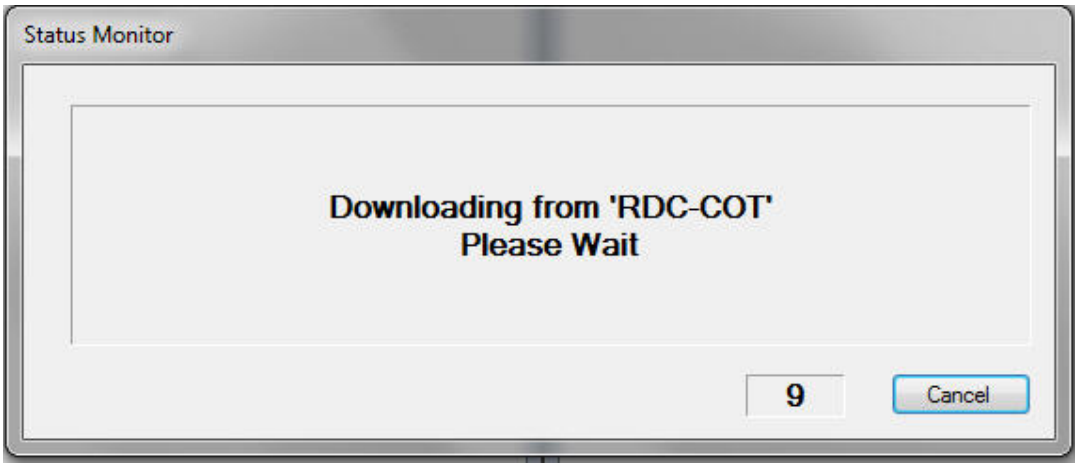
1. Connect the RDC-COT to the appropriate com port. The example is using COM3.
2. Select the 'Download Data from Device' icon as shown below.

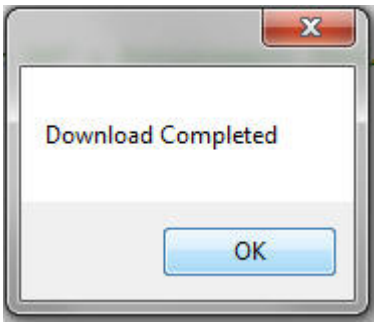


3. Follow instructions as shown on screens below.




Status Monitor
Waiting for 'RDC-COT' to respond.
5
Cancel


Status Monitor
Downloading from 'RDC-COT'
Please Wait
9
Cancel


Download Completed
OK

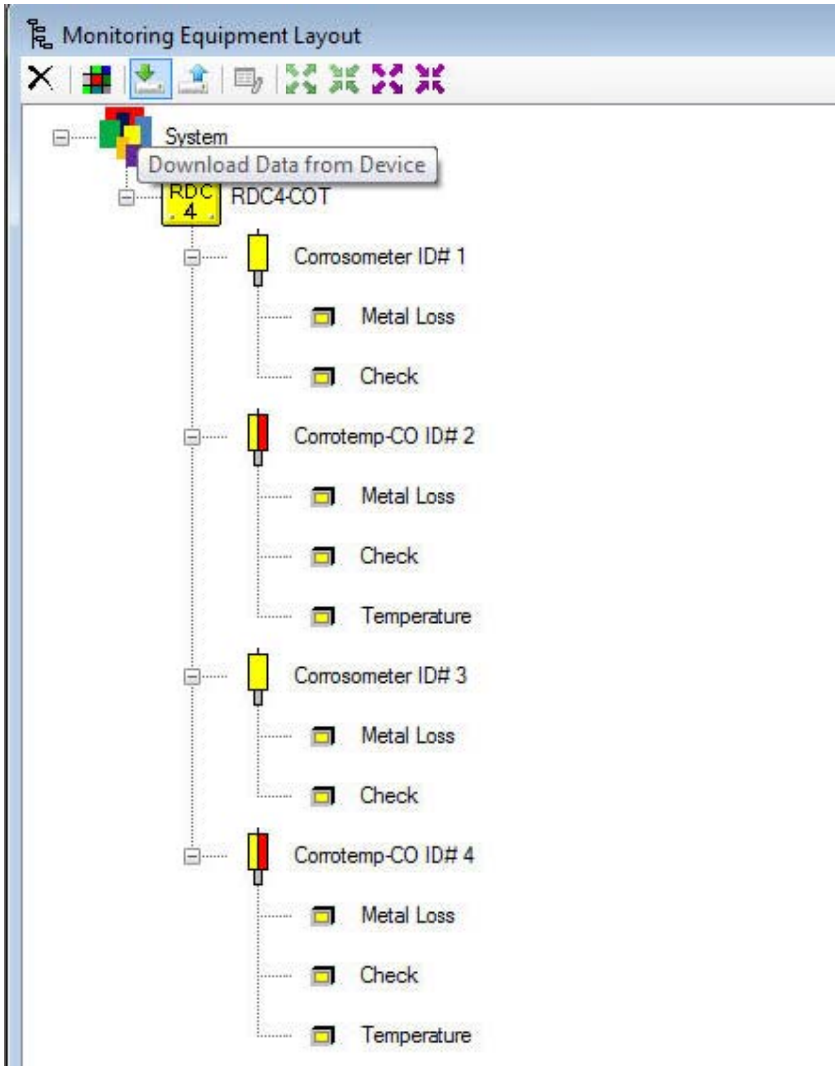
RDC4-COT:

The RDC4-COT is four RDC-COTs in one package and has the same specifications as the RDC-COT. The RDC4-COT can be programmed to read from one to four probes.

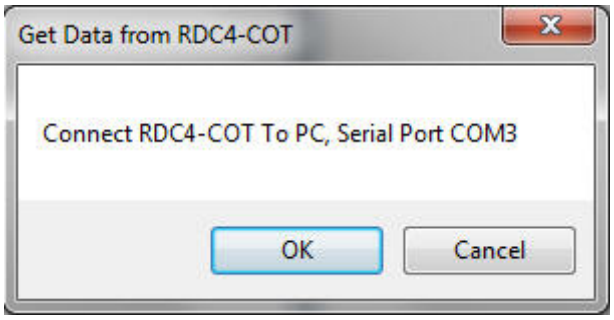
The RDC4-COT will accept the Corrosometer® probe and the Corrotemp®-CO probe .

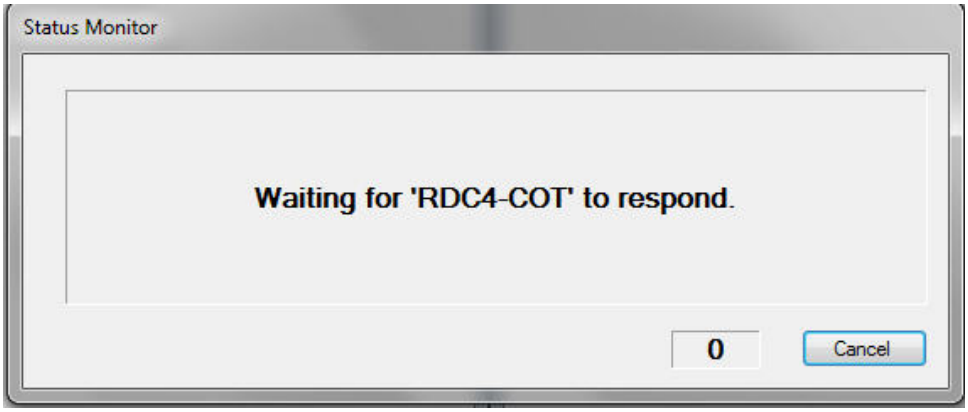
How to download data from the RDC4-COT.

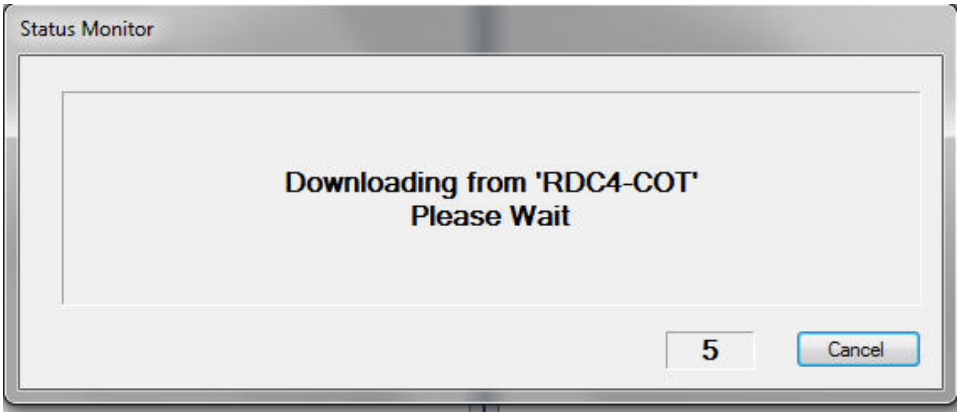
1. Connect the RDC4-COT to the appropriate com port. The example is using COM3.
2. Select the 'Download Data from Device' icon as shown below.

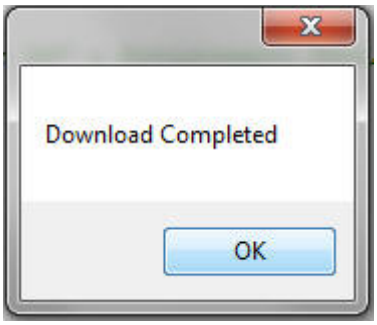


3. Follow instructions as shown on screens below.









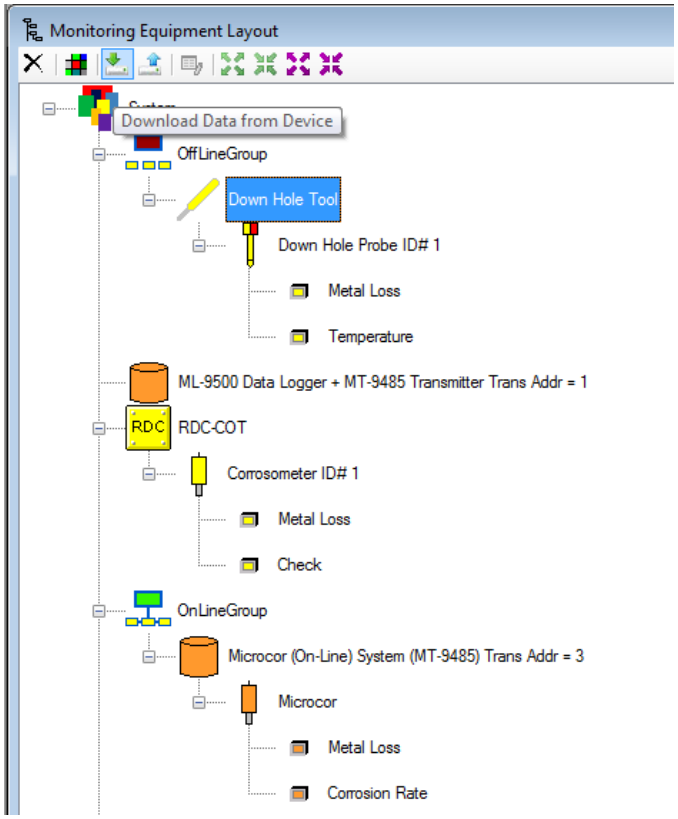
Down Hole Tool:

The Down Hole Tool can be programmed to read one of two probes.

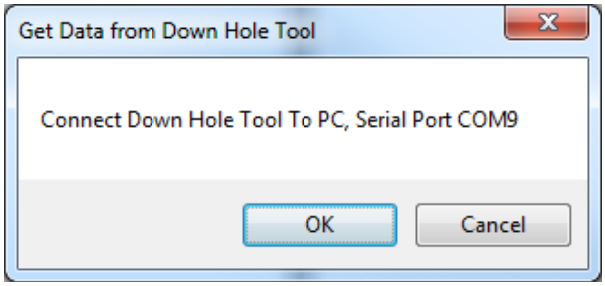
The Down Hole Tool will accept the Down Hole Probe only.

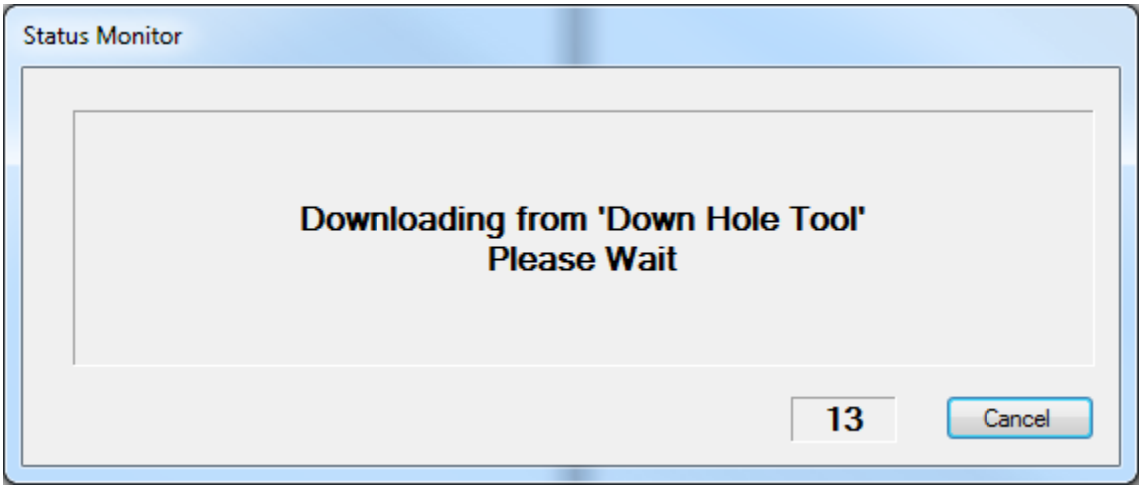
How to download data from the Down Hole Tool:

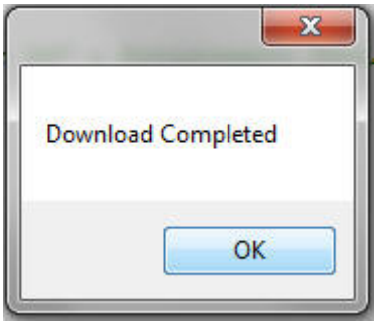
1. Connect the Down Hole Toolto the Communications Adapter and select the appropriate com port. The example is using COM3.
2. Switch Toggle down to enable PC Communications (Battery should be disconnected).
3. Select the 'Download Data from Device' icon as shown below.



4. Follow instructions as shown on screens below.







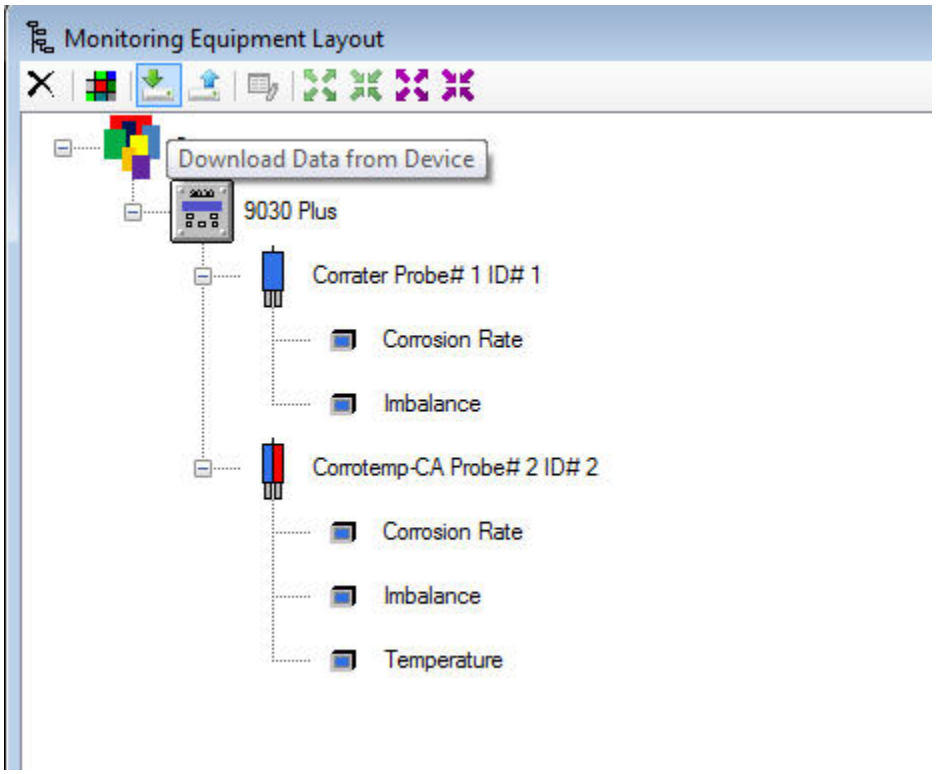
9030 Plus – Logger Mode:

The 9030 Plus is two RDC-CATs in one package and has the same specifications as the RDC-CAT.

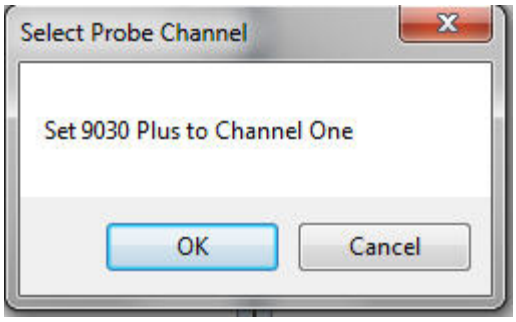
The 9030 Plus will accept the Corrater® probe and the Corrotemp®-CAprobe .

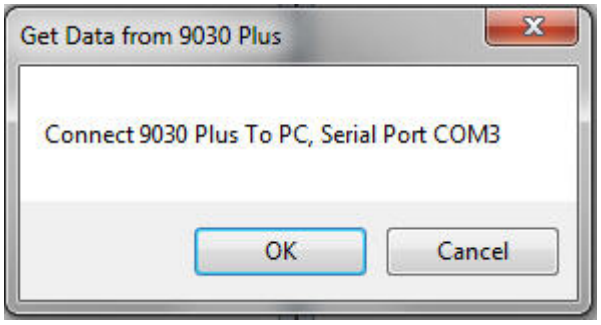
How to download data from the RDC4-COT.

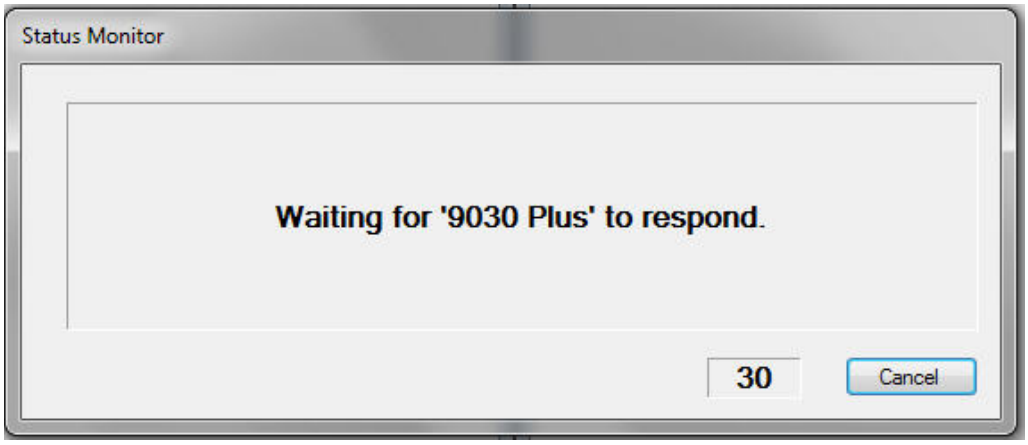
1. Connect the 9030 Plusto the appropriate com port. The example is using COM3.
2. Select the 'Download Data from Device' icon as shown below.

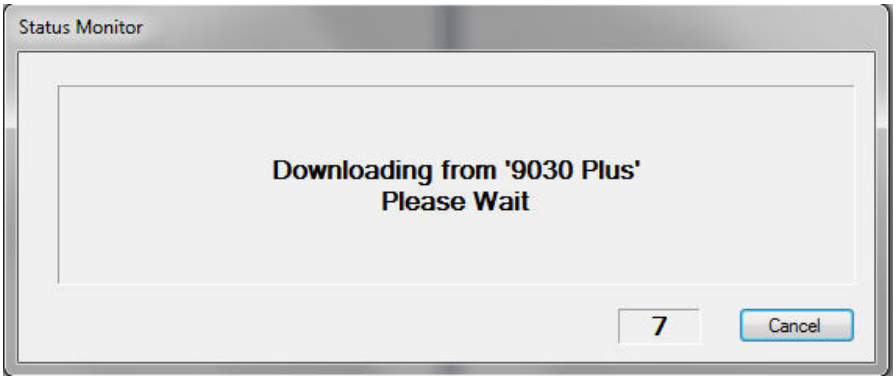


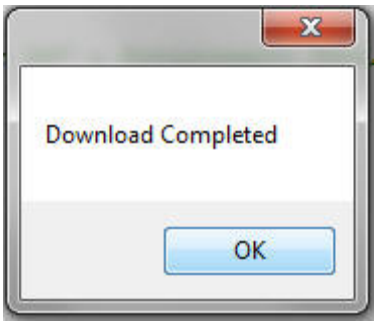
3. Follow instructions as shown on screens below.


Select Probe Channel
Set 9030 Plus to Channel One
OK
Cancel


Get Data from 9030 Plus
Connect 9030 Plus To PC, Serial Port COM3
OK
Cancel


Status Monitor
Waiting for '9030 Plus' to respond.
30
Cancel


Status Monitor
Downloading from '9030 Plus'
Please Wait
7
Cancel



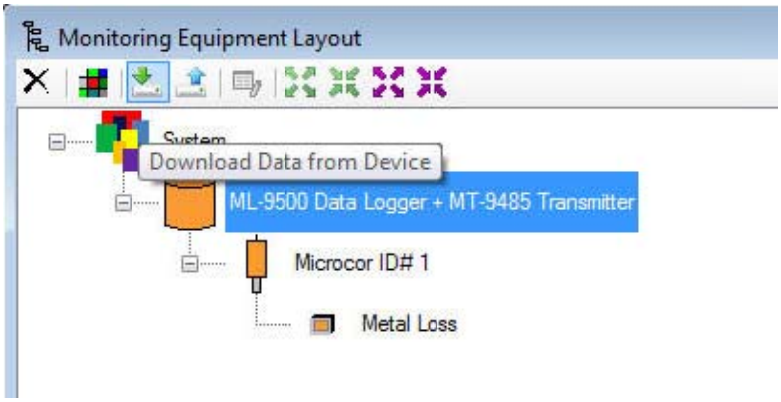
ML-9500 Data Logger + MT-9485 Transmitter:

The ML-9500 + MT-9485 Transmitterreads the Microcor® probe (Metal Loss). One probe can be connected to the system, and can store up to 8,000 readings.

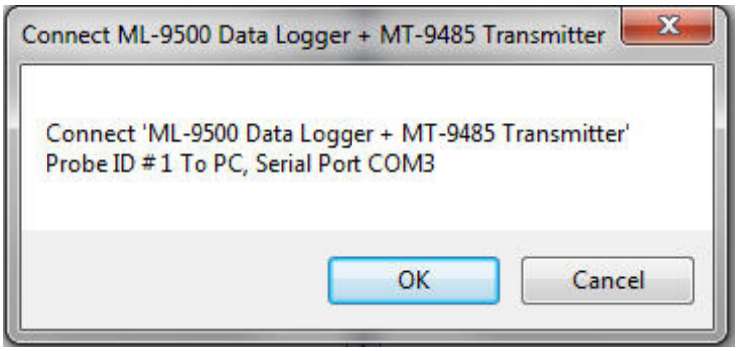
The ML-9500 + MT-9485 Transmitter will accept the Microcor®probe .

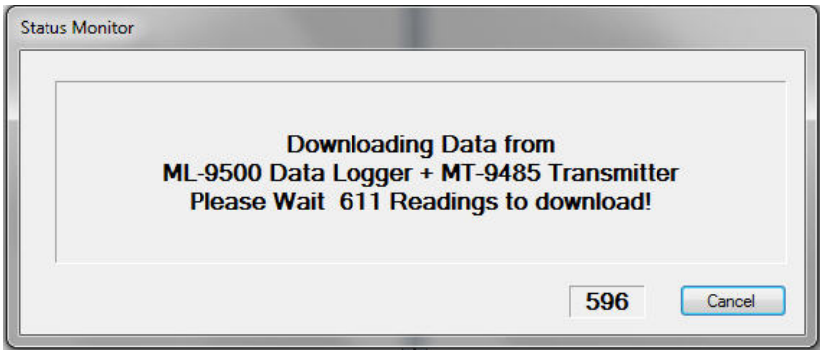
How to download data from the ML-9500 + MT-9485 Transmitter.

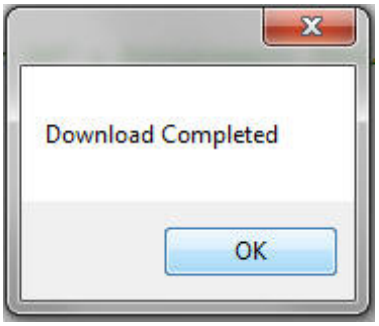
1. Connect the ML-9500 + MT-9485 Transmitter to the appropriate com port. The example is using COM3.
2. Select the 'Download Data from Device' icon as shown below.



3. Follow instructions as shown on screens below.







Microcor® (On-Line) System (MT-9485) or Microcor® Sand (ST-9485):

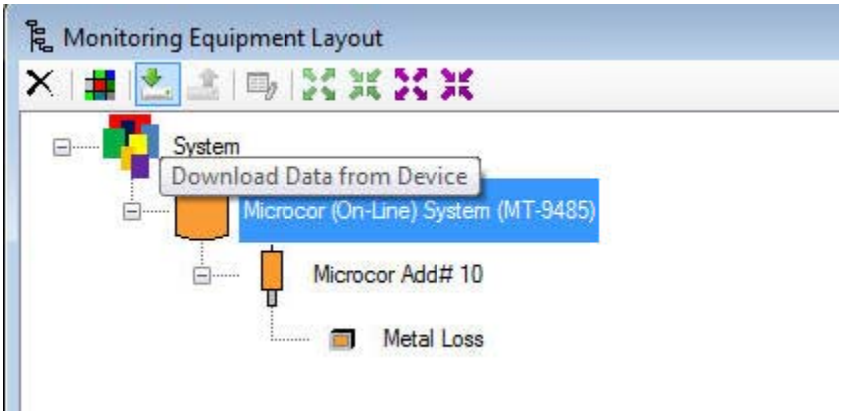
The Microcor®(On-Line) System reads the Microcor® probe (Metal Loss), and the Microcor® w/Temp probe (Metal Loss and Temperature).
The System uses the RS 485 communication bus, and up to 99 transmitters may be connected with a single cable run.

One probe can be connected to each transmitter.

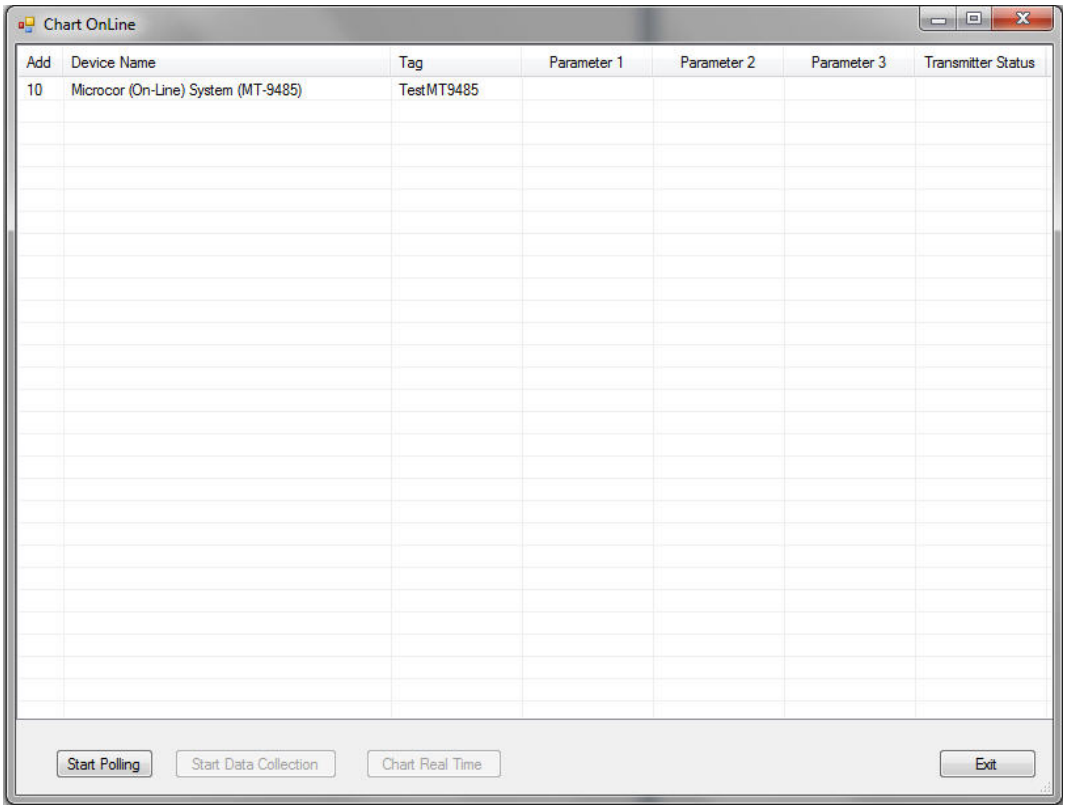
The Microcor® (On-Line) System will accept the Microcor® probe and the Microcor® w/Tempprobe .

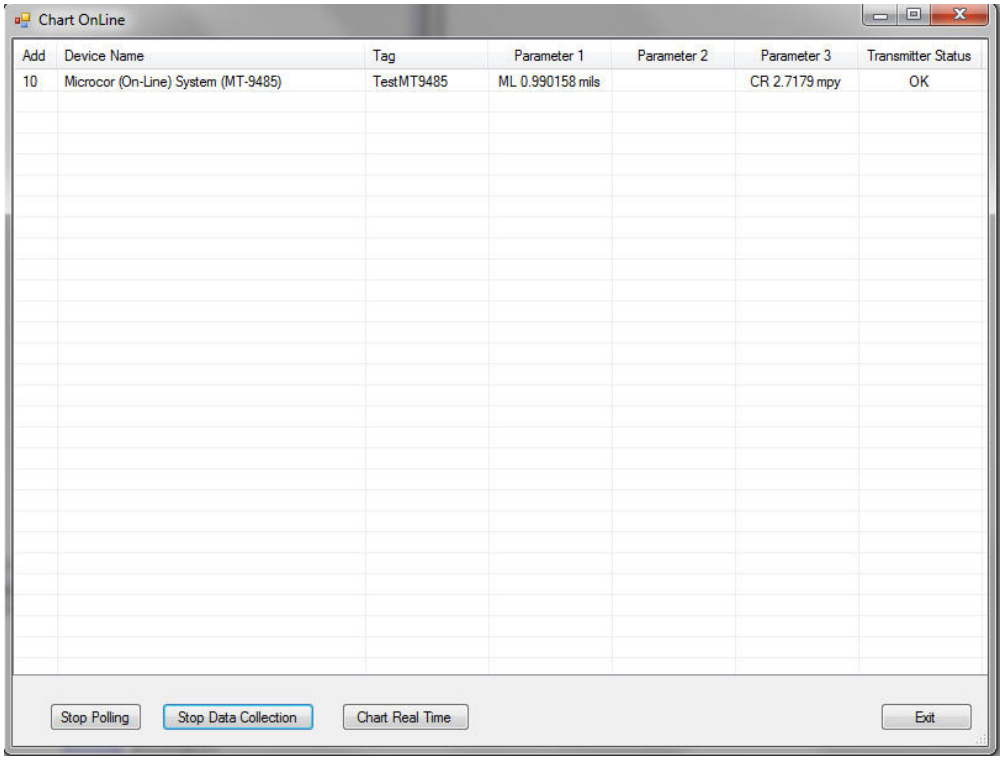
How to download data from the Microcor® (On-Line) System.

1. Connect the Microcor® (On-Line) System to the appropriate com port. The example is using COM3 with the Transmitter ID set to 10.
2. Select the 'Download Data from Device' icon as shown below.

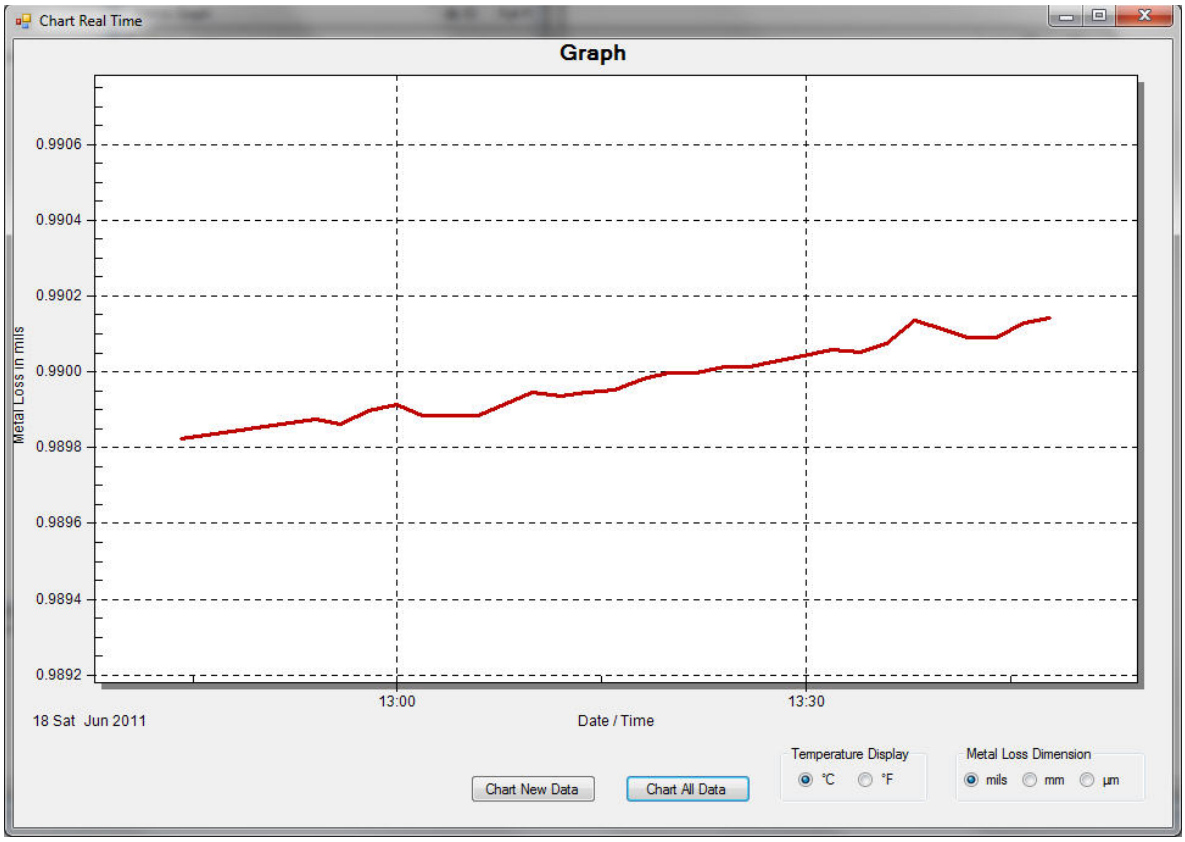


3. From the screen below select 'Start Polling', this will acquire reading from the Transmitter every ten seconds and display the metal loss under the 'Parameter 1' column.
4. Select 'Start Data Collection', this will save reading to the Database at the 'Sample Interval' set when the Microcor® (On-Line) System was added. See Chapter 5, Configuration. This will also start the calculation of the 'Rate' after four reading have been taken. The rate will be shown in the 'Parameter 3' column.





5. Select ‘Chart Real Time.



6. Selecting ‘Chart New Data’ will clear chart and start plotting with new readings being taken.
7. Selecting ‘Chart All Data’ will load all data from database and then plot new data.
8. Chart display units can be changed by changing ‘Temperature’ (if being plotted), and by changing ‘Metal Loss Dimension’.

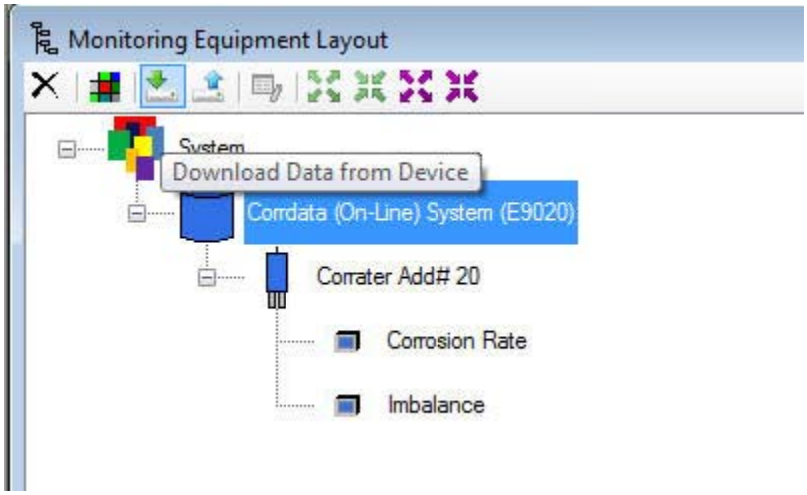
Corrdata® (On-Line) System (E9020):

The Corrdata ® (On-Line) System reads the Corrater® probe (Rate & Imbalance).

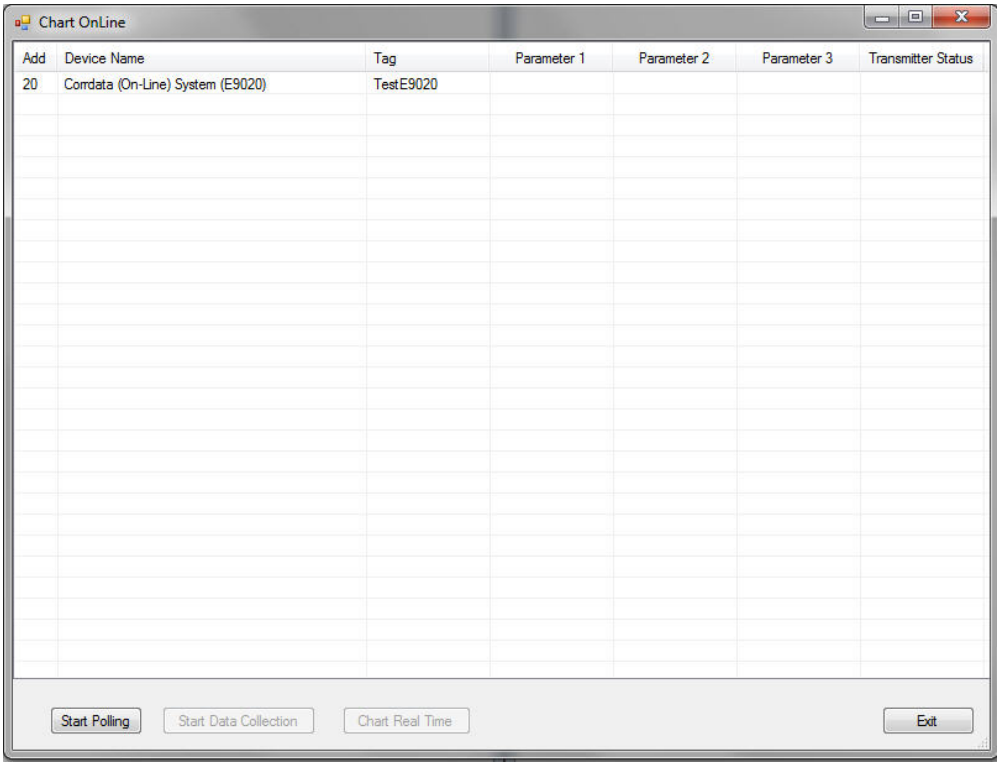
The Corrdata® (On-Line) System will accept the Corrater® probe .

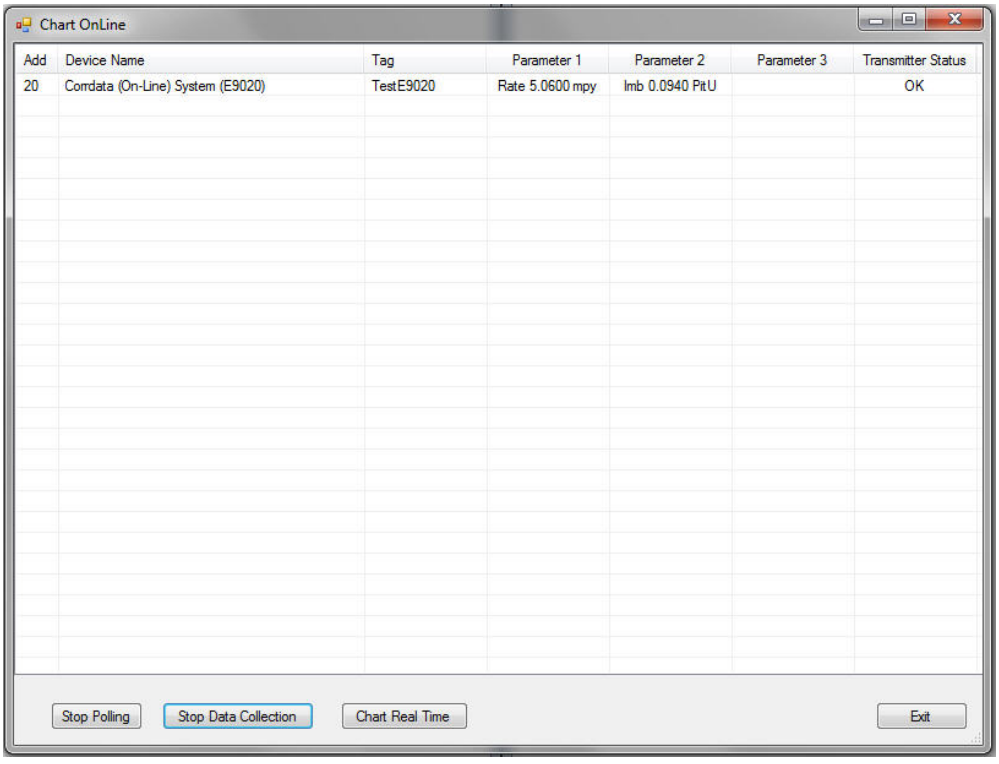
How to download data from the Corrdata® (On-Line) System.

1. Connect the Corrdata® (On-Line) System to the appropriate com port. The example is using COM3 with the Transmitter ID set to 20.
2. Select the 'Download Data from Device' icon as shown below.

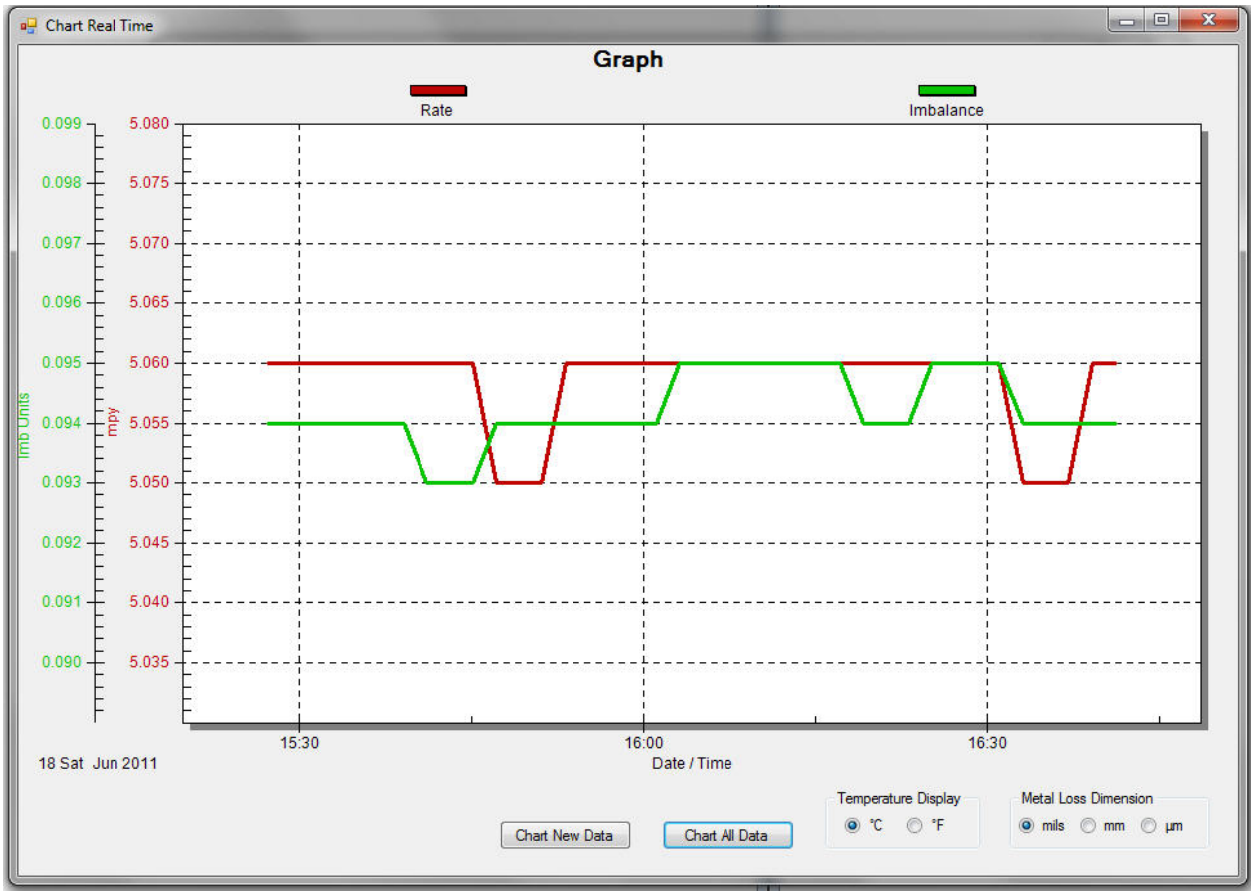


3. From the screen below select 'Start Polling', this will acquire a reading from the Transmitter every ten seconds and display the Rate under the 'Parameter 1' column and Imbalance under the 'Parameter 2' column.
4. Select 'Start Data Collection', this will save readings to the Database at the 'Sample Interval' set when the Corrdata® (On-Line) System was added. See Chapter 5, Configuration.





5. Select ‘Chart Real Time.



6. Selecting ‘Chart New Data’ will clear chart and start plotting with new readings being taken.
7. Selecting ‘Chart All Data’ will load all data from database and then plot new data.
8. Chart display units can be changed by changing ‘Temperature’ (if being plotted), and by changing ‘Metal Loss Dimension’.
9.

9000 – 9000 Plus:

The 9000 - 9000 Plus is used to measure Corrosion Rate and Imbalance.

The 9000 - 9000 Plus will accept the Corrater® probe .

The 9000 - 9000 Plus does not store readings, therefore readings must be logged and then manually entered into the Corrdata® II software.

Aquamate™:

The Aquamate™ is used to measure Corrosion Rate, Imbalance, Conductivity, and Temperature.

The Aquamate™ will accept the Corrater® probe and the Corrotemp®-CA probe .

The Aquamate™ does not store readings, therefore readings must be logged and then manually entered into the Corrdata® II software. For manual entry, go to Chapter 6 Manual Entry of Data.

CK-3:

The CK-3 is used to measure Metal Loss, and Probe Check readings.

The CK-3 will accept the Corrosometer® probe .

The CK-3 does not store readings, therefore readings must be logged and then manually input into the Corrdata® II software. For manual entry, go to Chapter 6 Manual Entry of Data.

CK-4:

The CK-4 is used to measure Metal Loss, Temperature, andProbe Check readings.

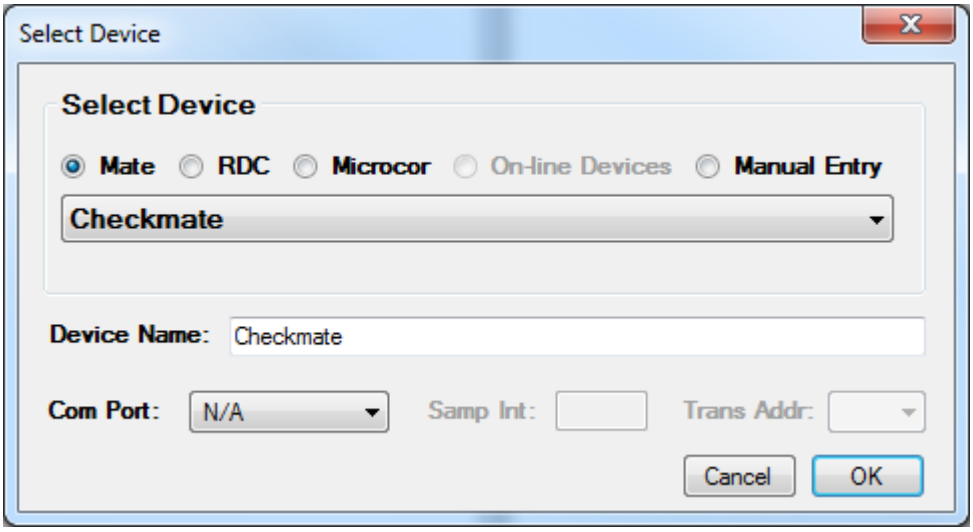
The CK-4 will accept the Corrosometer® probe and the Corrotemp®-CO probe .

The CK-4 allows readings to be stored for up to 26 probes. This stored data is later retrieved and manually entered into the Corrdata® II software. For manual entry, go to Chapter 6 Manual Entry of Data.

Chapter 5 Configuration

This chapter shows how to configure each measurement device and probe.

Measurement Devices:



Mate, RDC, and Microcor:

1. You may select a Device Name or use default.
2. A Com Port must be selected. This is the Com Port that the device will be connected to the computer.
3. Hit 'OK' to accept or 'Cancel'.

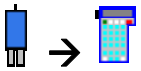
On-line Devices:

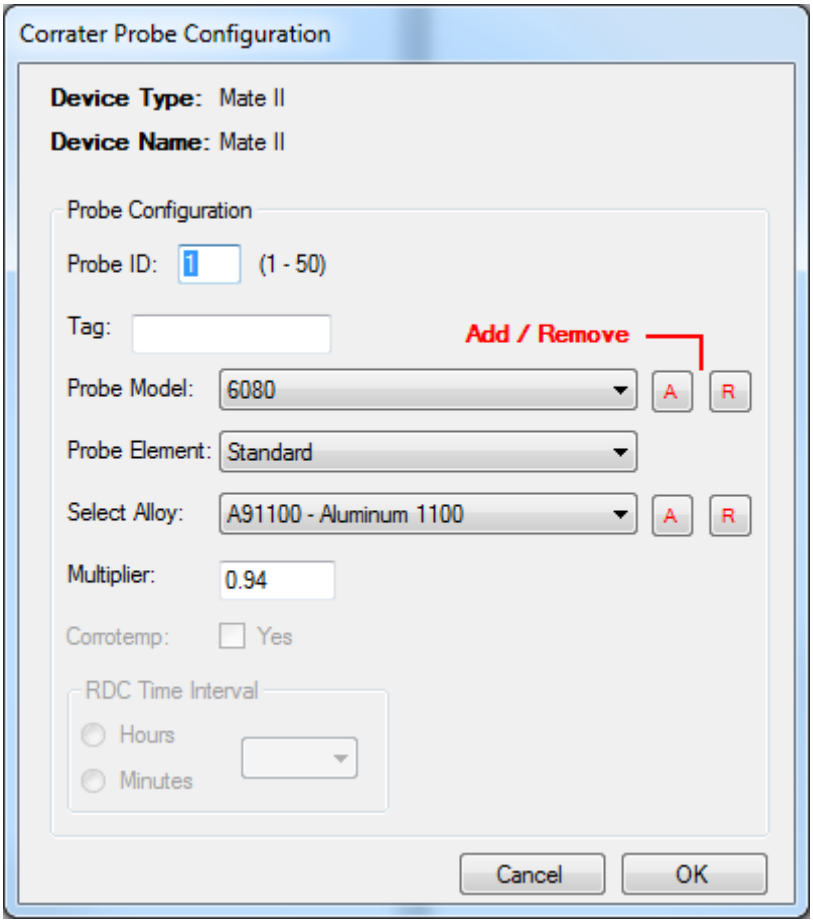
1. You may select a Device Name or use default.
2. A Com Port must be selected. This is the Com Port that the device will be connected to the computer.
3. A Sample Interval must be selected. This is the interval that the Corrdata® II software will acquire data from the On-line Device. The Sample Interval must be between 2 and 65535 minutes.
4. Hit 'OK' to accept or 'Cancel'.

Manual Entry:

1. You may select a Device Name or use default.
2. Hit 'OK' to accept or 'Cancel'.

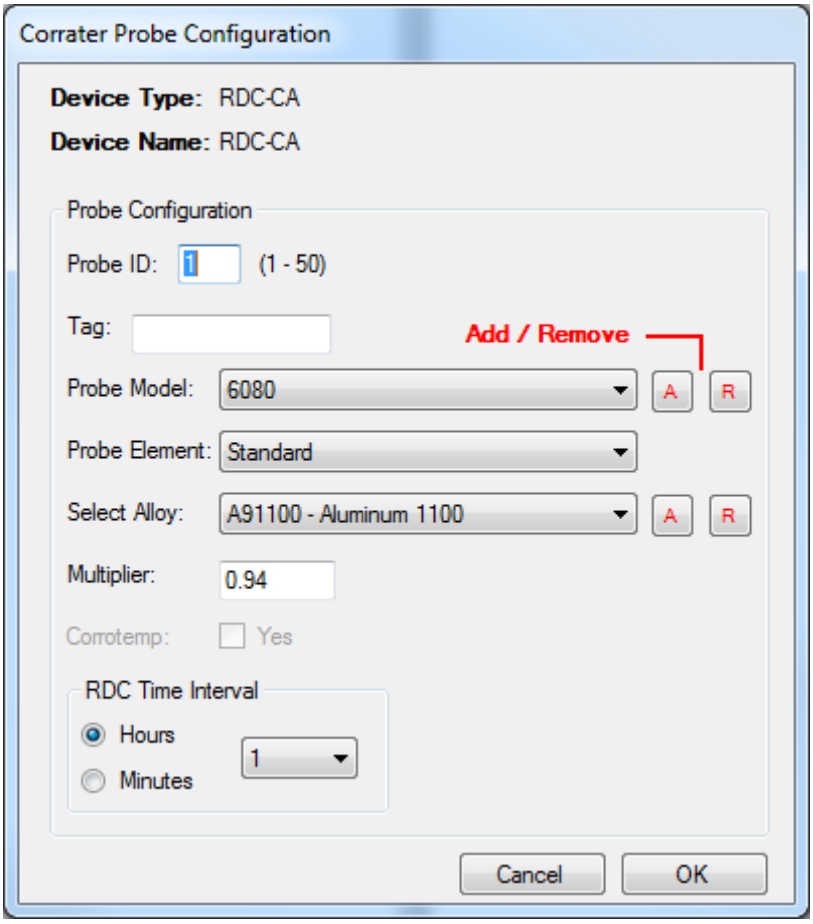
Probes:

Corrater® - Drop on Mate II: → 



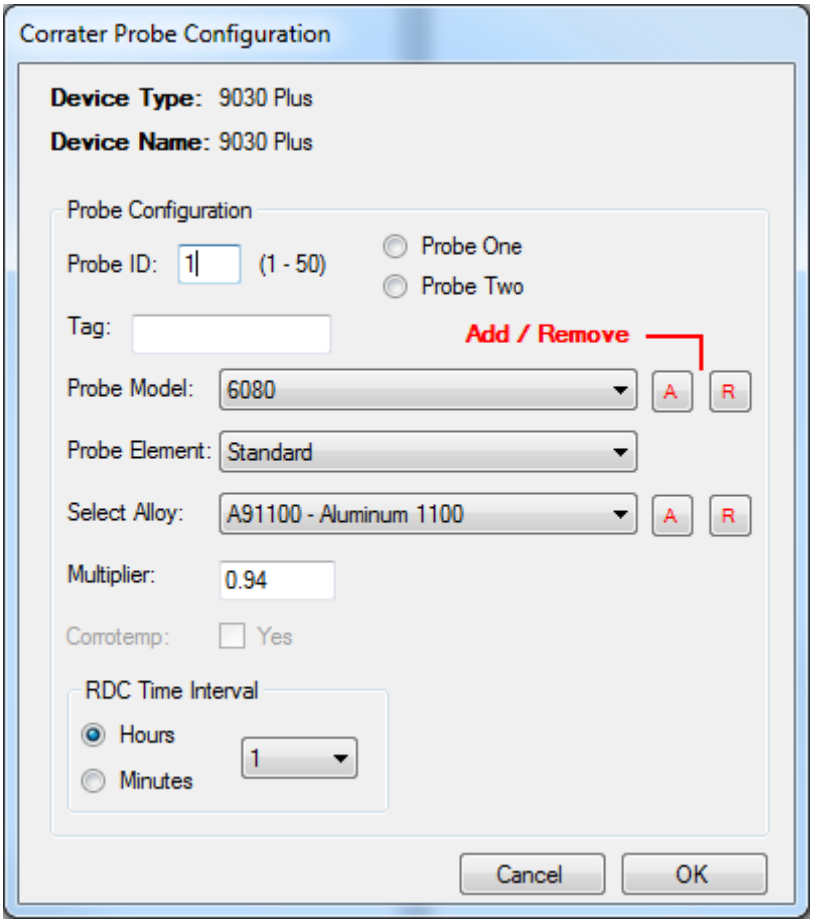
1. Select Probe ID. The Mate II will accept Probe IDs from 1 to 50.
2. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
3. Select Probe. The options are Corrater E, Corrater Flush F, Test Probe CA E, and Other CA.
4. Select Alloy. Select from a list of Alloys or Other. Selecting an Alloy will automatically set the Alloy and Multiplier.
5. The Alloy and Multiplier can be overridden if desired.
6. Hit OK to accept or Cancel.

Corrater® - Drop on RDC-CA, or RDC-CAT:



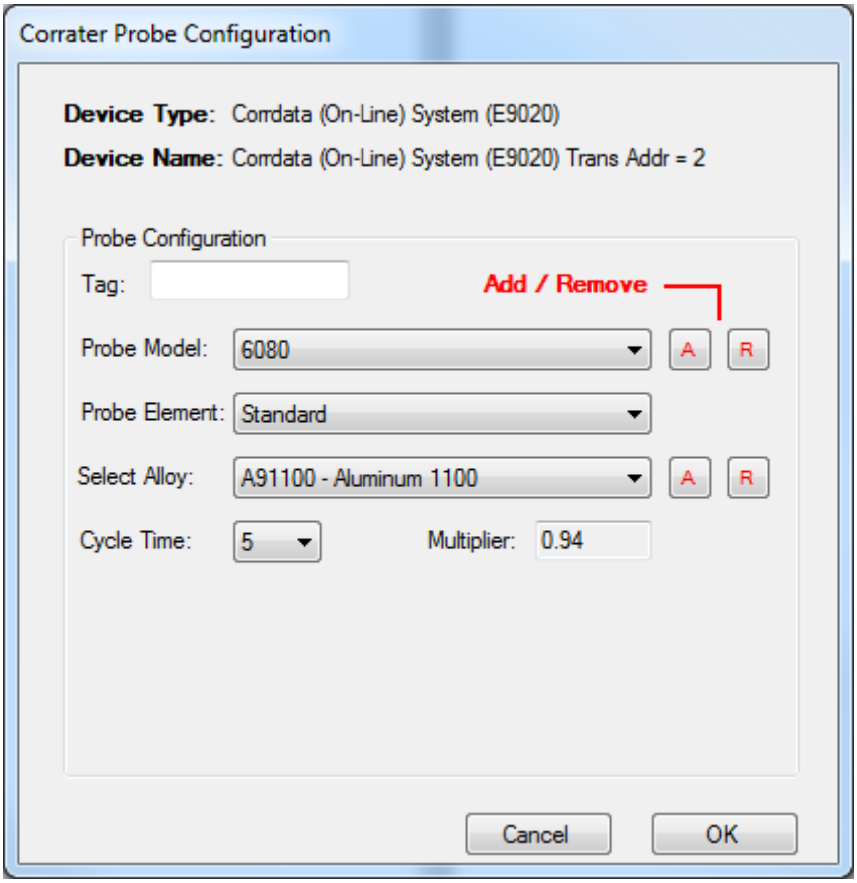
1. Select Probe ID. The RDC will accept Probe IDs from 1 to 50.
2. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
3. Select Probe. The options are Corrater E, Corrater Flush F, Test Probe CA E, and Other CA.
4. Select Alloy. Select from a list of Alloys or Other. Selecting an Alloy will automatically set the Alloy and Multiplier.
5. The Alloy and Multiplier can be overridden if desired.
6. Select RDC Time Interval: The Time Interval sets the readinginterval of the RDC. The time interval in hours can be set to 1, 2, 3, 4, 6, 8, 12, or 24. The time interval in minutes and be to 30.
7. Hit OK to accept or Cancel.

Corrater® - Drop on 9030 Plus:



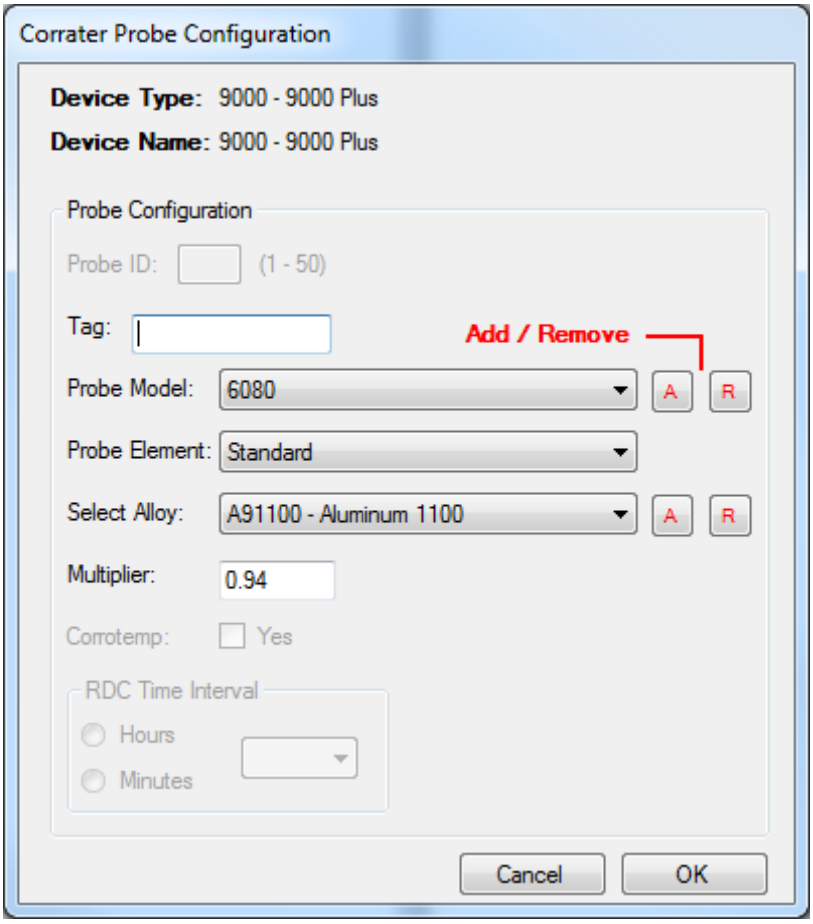
1. Select Probe ID. The 9030 Plus will accept Probe IDs from 1 to 50.
2. Select Probe One or Probe Two.
3. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
4. Select Probe. The options are Corrater E, Corrater Flush F, Test Probe CA E, and Other CA.
5. Select Alloy. Select from a list of Alloys or Other. Selecting an Alloy will automatically set the Alloy and Multiplier.
6. The Alloy and Multiplier can be overridden if desired.
7. Select RDC Time Interval: The Time Interval sets the reading interval of the 9030 Plus. The time interval in hours can be set to 1, 2, 3, 4, 6, 8, 12, or 24. The time interval in minutes and be to 30.
8. Hit OK to accept or Cancel.

Corrater® - Drop on Corrdata (On-Line) System (E9020):



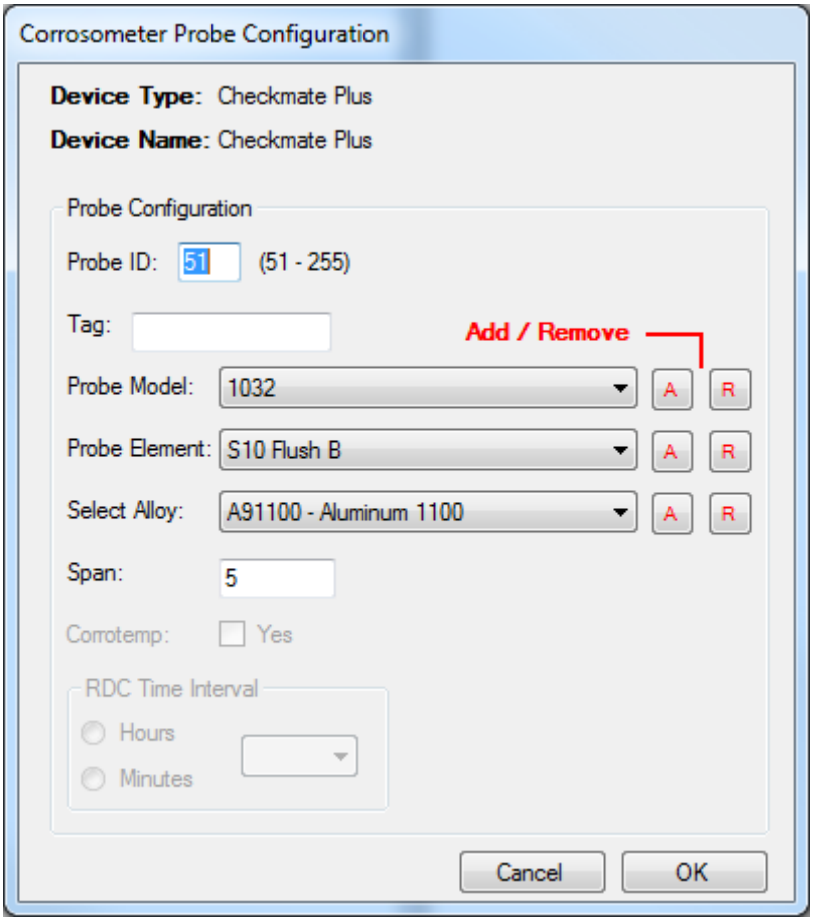
1. Select Probe Address. The E9020 will accept Probe addresses from 1 to 99.
2. The Com Port was set when the E9020 was configured.
3. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
4. Select Probe. The options are Corrater E, or Corrater Flush F.
5. Select Alloy. Select from a list of Alloys or BLIND. Selecting an Alloy will automatically set the Alloy and Multiplier.
6. The Alloy and Multiplier can be overridden if desired.
7. The Sampling Interval was set when the E9020 was configured.
8. Select Cycle Time: The Cycle Time sets the Measurement Cycle Time of the E9020. The Cycle Time can be set to 5, 10, 15, or 20 minutes.
9. Hit OK to accept or Cancel.

Corrater® - Drop on 9000 – 9000 Plus or Aquamate: → or



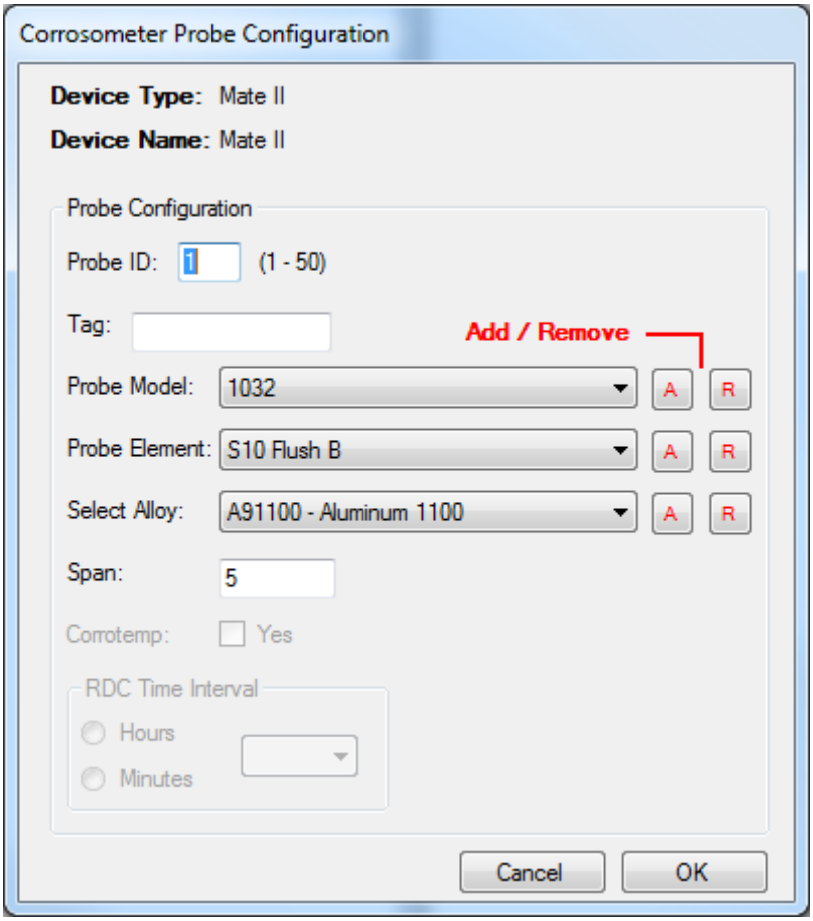
1. The Probe ID is not used.
2. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
3. Select Probe. The options are Corrater E, or Corrater Flush F.
4. Select Alloy. Select from a list of Alloys or Other. Selecting an Alloy will automatically set the Alloy and Multiplier.
5. The Alloy and Multiplier can be overridden if desired.
6. Hit OK to accept or Cancel.

Corrosometer® - Drop on Checkmate or Checkmate Plus:



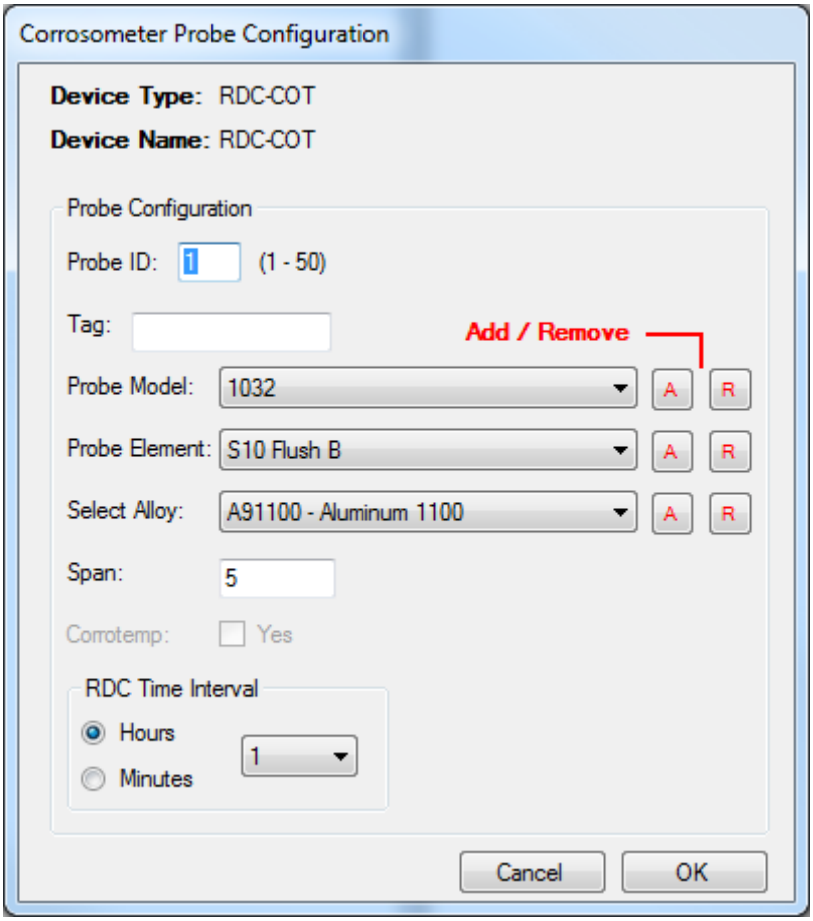
1. Select Probe ID. The Checkmate and Checkmate Plus will accept Probe IDs from 51 to 255.
2. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
3. Select Probe. Select from a list of Corrosometer® probe types. The Probe Type will automatically set the Span.
4. Select Alloy. Select from a list of Alloys. The Alloy UNS number will automatically be set.
5. The Alloy and Span can be overridden if desired.
6. Hit OK to accept or Cancel.

Corrosometer® - Drop on Mate II:



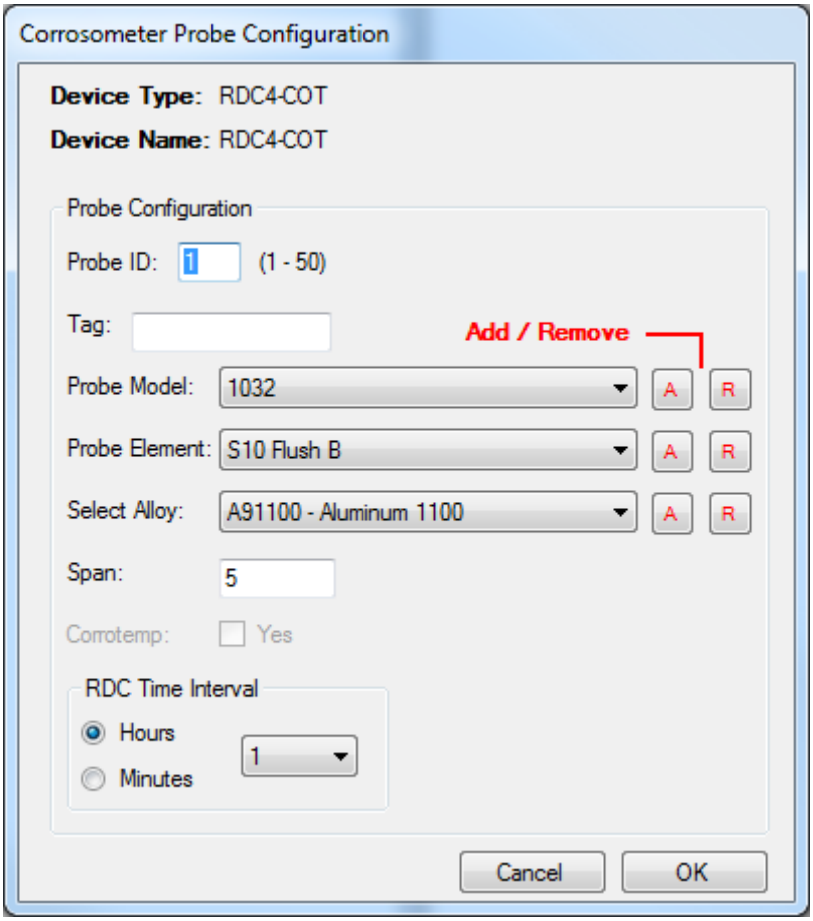
1. Select Probe ID. The Mate II will accept Probe IDs from 1 to 50.
2. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
3. Select Probe. Select from a list of Corrosometer® probe types. The Probe Type will automatically set the Span.
4. Select Alloy. Select from a list of Alloys. The Alloy UNS number will automatically be set.
5. The Alloy and Span can be overridden if desired.
6. Hit OK to accept or Cancel.

Corrosometer® - Drop on RDC-CO or RDC-COT:



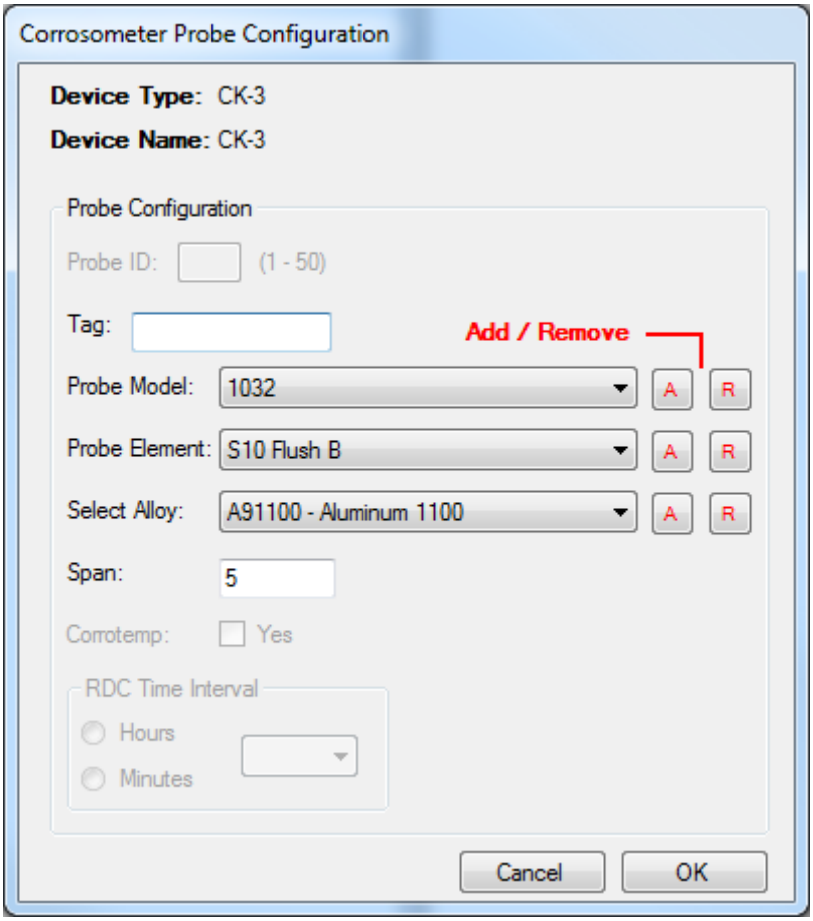
1. Select Probe ID. The RDC-CO and RDC-COT will accept Probe IDs from 1 to 50.
2. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
3. Select Probe. Select from a list of Corrosometer® probe types. The Probe Type will automatically set the Span.
4. Select Alloy. Select from a list of Alloys. The Alloy UNS number will automatically be set.
5. The Alloy and Span can be overridden if desired.
6. Select RDC Time Interval: The Time Interval sets the reading interval of the RDC. The time interval in hours can be set to 1, 2, 3, 4, 6, 8, 12, or 24. The time interval in minutes and be to 5, 10, 15, or 30.
7. Hit OK to accept or Cancel.

Corrosometer® - Drop on RDC4-COT:



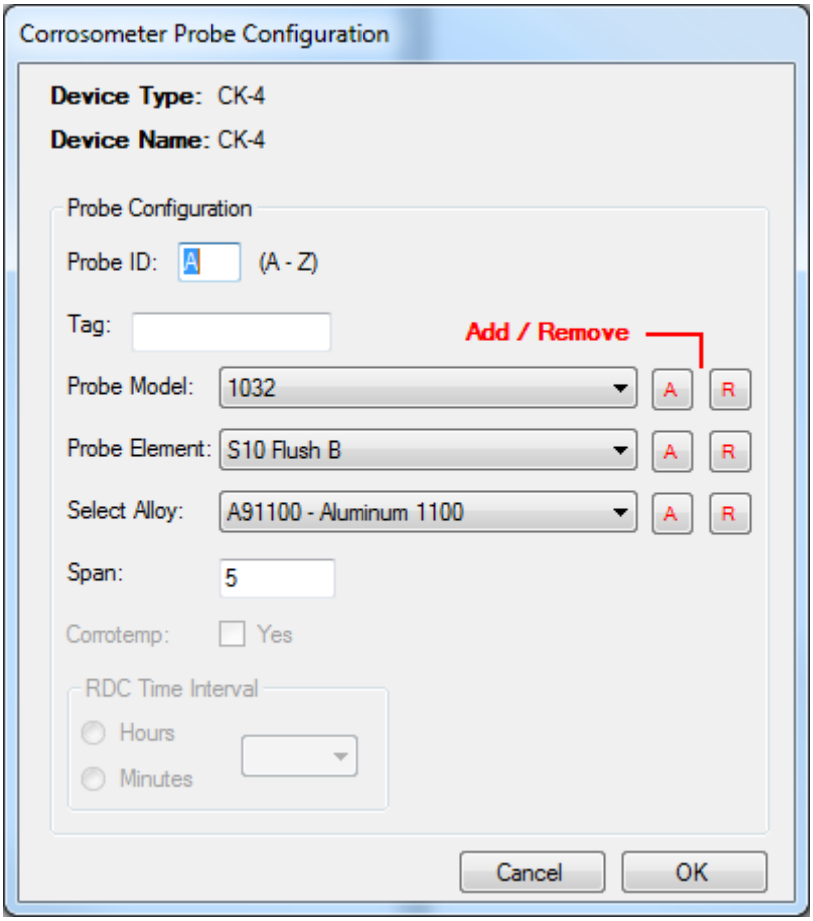
1. Select Probe ID. The RDC4-COT will accept Probe IDs from 1 to 50. The RDC4-COT will accept up to 4 probes.
2. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
3. Select Probe. Select from a list of Corrosometer® probe types. The Probe Type will automatically set the Span.
4. Select Alloy. Select from a list of Alloys. The Alloy UNS number will automatically be set.
5. The Alloy and Span can be overridden if desired.
6. Select RDC Time Interval: The Time Interval sets the reading interval of the RDC. The time interval in hours can be set to 1, 2, 3, 4, 6, 8, 12, or 24. The time interval in minutes and be to 15, or 30.
7. Hit OK to accept or Cancel.

Corrosometer® - Drop on CK-3:



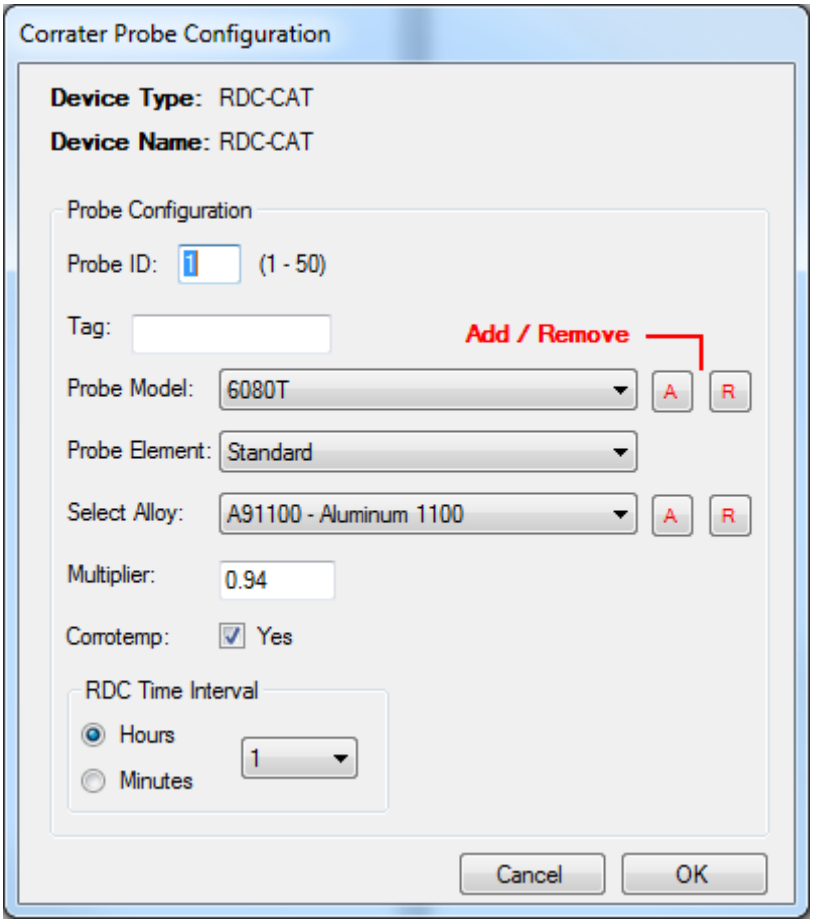
1. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long. The CK-3 will accept as many probes as required.
2. Select Probe. Select from a list of Corrosometer® probe types. The Probe Type will automatically set the Span.
3. Select Alloy. Select from a list of Alloys. The Alloy UNS number will automatically be set.
4. The Alloy and Span can be overridden if desired.
5. Hit OK to accept or Cancel.

Corrosometer® - Drop on CK-4:



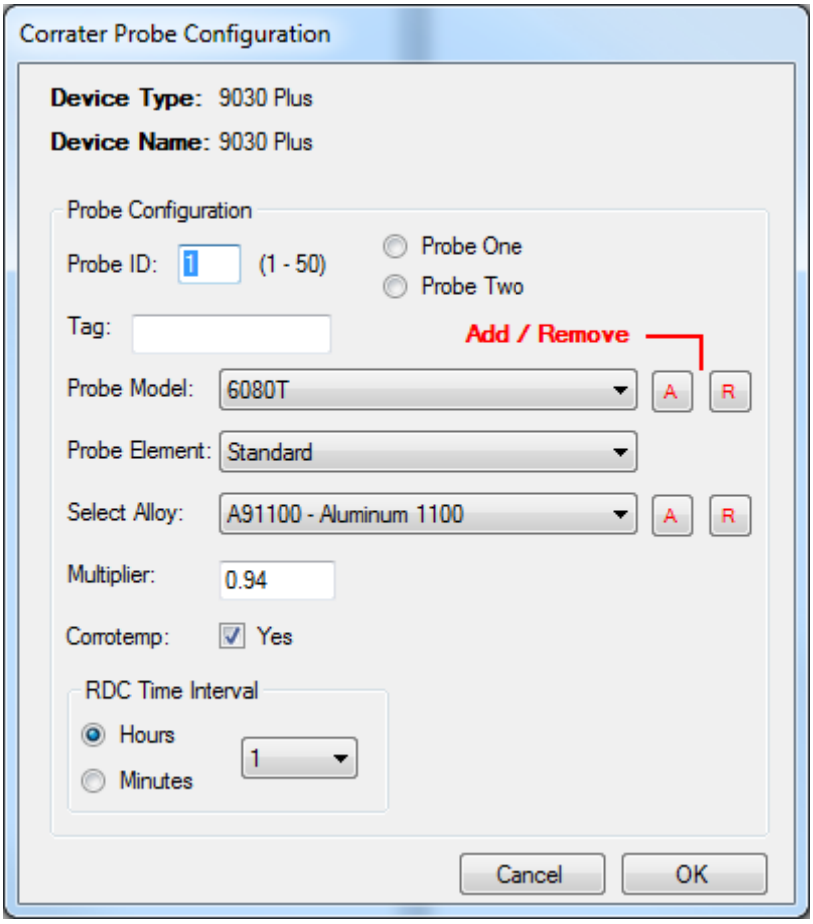
1. Select Probe ID. The CK-4 will accept Probe IDs from A to Z. The CK-4 will accept up to 26 probes.
2. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long. The CK-3 will accept as many probes as required.
3. Select Probe. Select from a list of Corrosometer® probe types. The Probe Type will automatically set the Span.
4. Select Alloy. Select from a list of Alloys. The Alloy UNS number will automatically be set.
5. The Alloy and Span can be overridden if desired.
6. Hit OK to accept or Cancel.

Corrotemp®-CA - Drop on RDC-CAT:



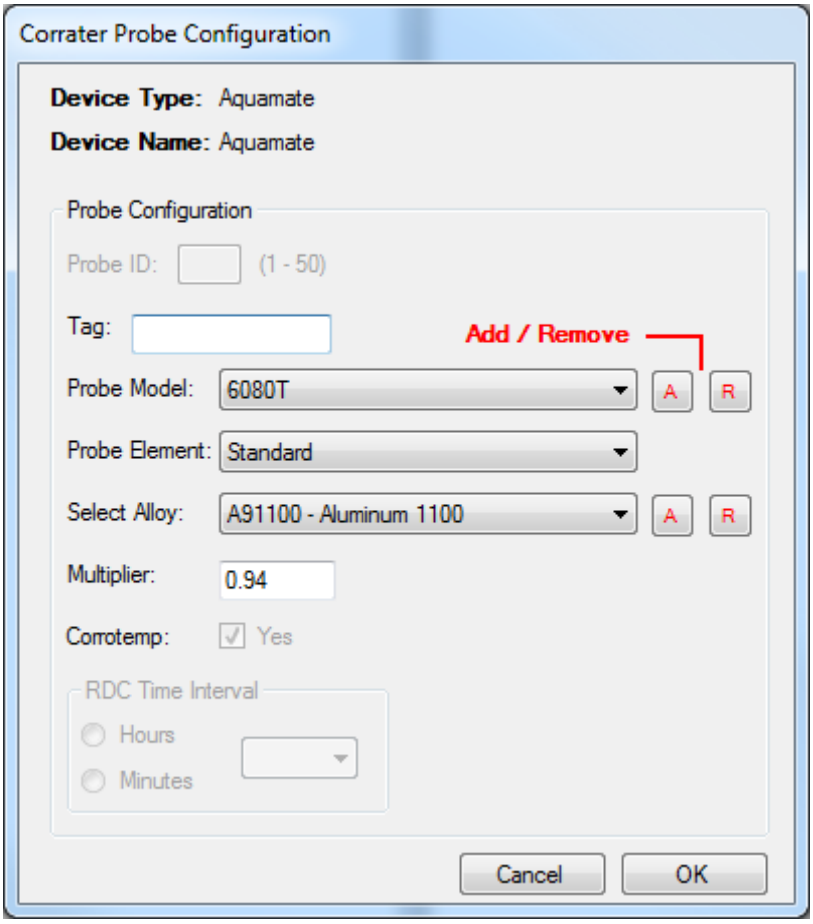
1. Select Probe ID. The RDC-CAT will accept Probe IDs from 1 to 50.
2. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
3. Select Probe. The options are Corrater E, Corrater Flush F, Test Probe CA E, and Other CA.
4. Select Alloy. Select from a list of Alloys or Other. Selecting an Alloy will automatically set the Alloy UNS number and Multiplier.
5. The Alloy and Multiplier can be overridden if desired.
6. Select RDC Time Interval: The Time Interval sets the reading interval of the RDC. The time interval in hours can be set to 1, 2, 3, 4, 6, 8, 12, or 24. The time interval in minutes and be to 30.
7. Hit OK to accept or Cancel.

Corrotemp®-CA - Drop on 9030 Plus:



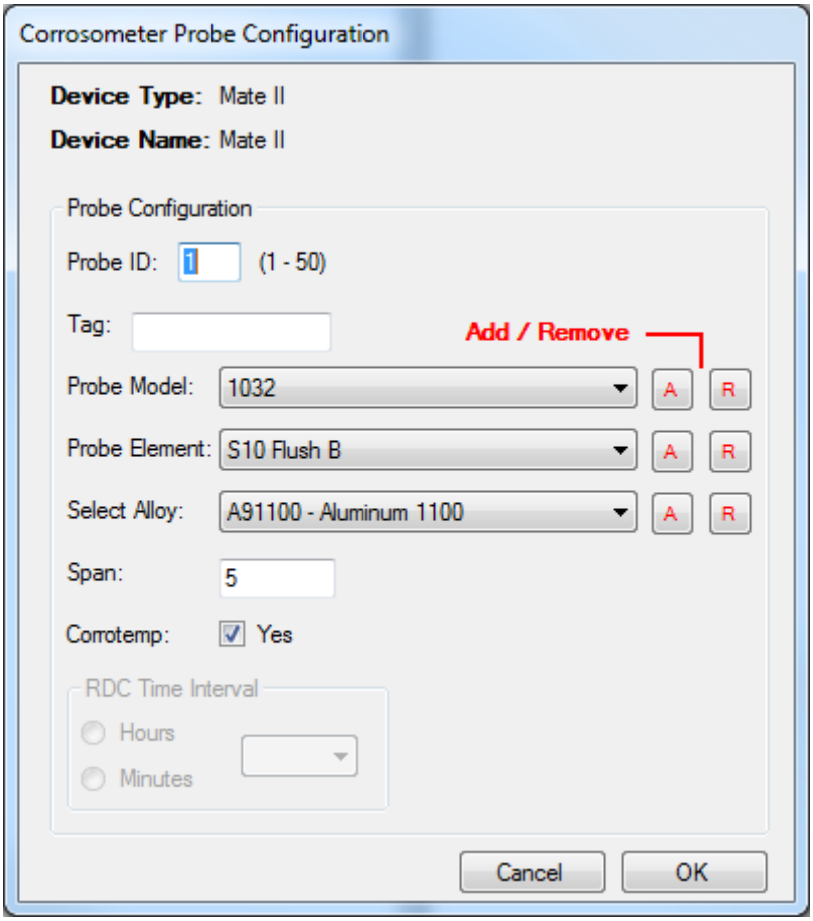
1. Select Probe ID. The 9030 Plus will accept Probe IDs from 1 to 50.
2. Select Probe One or Probe Two.
3. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
4. Select Probe. The options are Corrater E, Corrater Flush F, Test Probe CA E, and Other CA.
5. Select Alloy. Select from a list of Alloys or Other. Selecting an Alloy will automatically set the Alloy and Multiplier.
6. The Alloy and Multiplier can be overridden if desired.
7. The Corrotemp CheckBox may be unchecked if desired.
8. Select RDC Time Interval: The Time Interval sets the reading interval of the 9030 Plus. The time interval in hours can be set to 1, 2, 3, 4, 6, 8, 12, or 24. The time interval in minutes can only be set to 30.
9. Hit OK to accept or Cancel.

Corrotemp®-CA - Drop on Aquamate: →



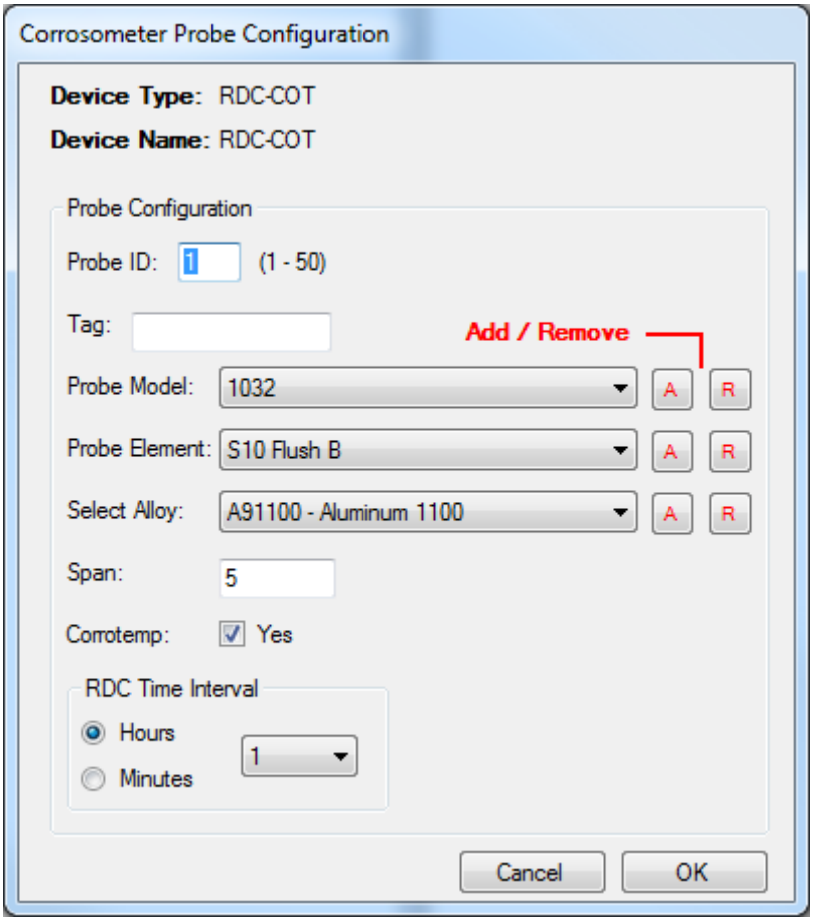
1. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
2. Select Probe. The options are Corrater E, or Corrater Flush F.
3. Select Alloy. Select from a list of Alloys or Other. Selecting an Alloy will automatically set the Alloy and Multiplier.
4. The Alloy and Multiplier can be overridden if desired.
5. Hit OK to accept or Cancel.

Corrotemp®-CO - Drop on Mate II:



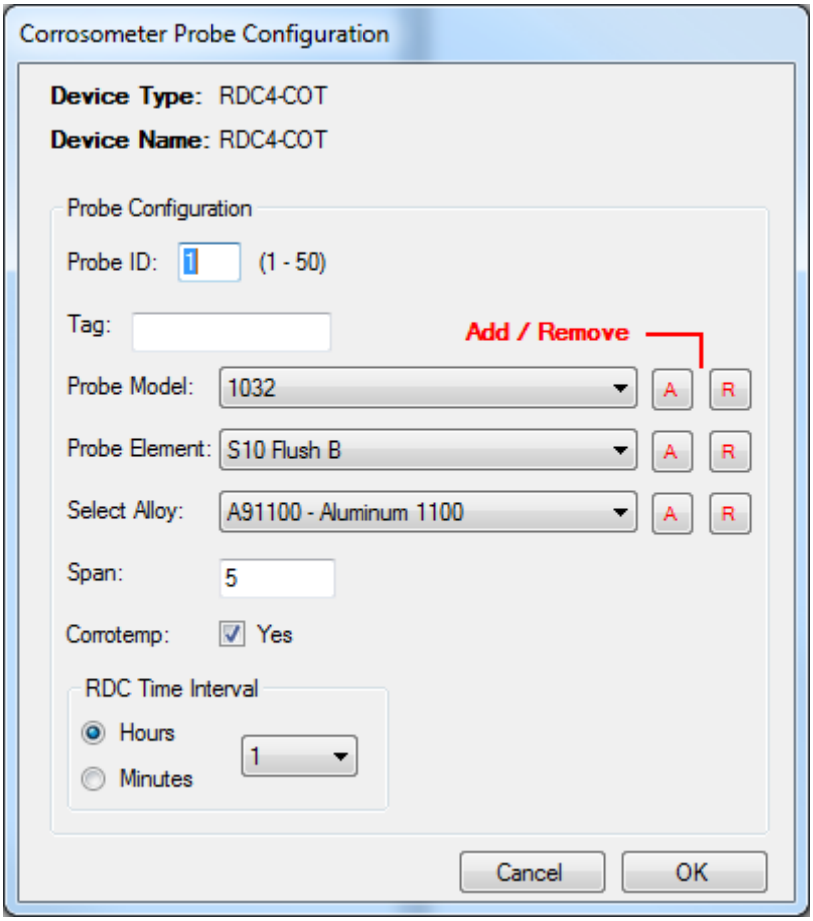
1. Select Probe ID. The Mate II will accept Probe IDs from 1 to 50.
2. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
3. Select Probe. Select from a list of Corrosometer® probe types. The Probe Type will automatically set the Span.
4. Select Alloy. Select from a list of Alloys. The Alloy UNS number will automatically be set.
5. The Alloy and Span can be overridden if desired.
6. The Corrotemp Check Box may be unchecked if desired.
7. Hit OK to accept or Cancel.

Corrotemp®-CO - Drop on RDC-COT:



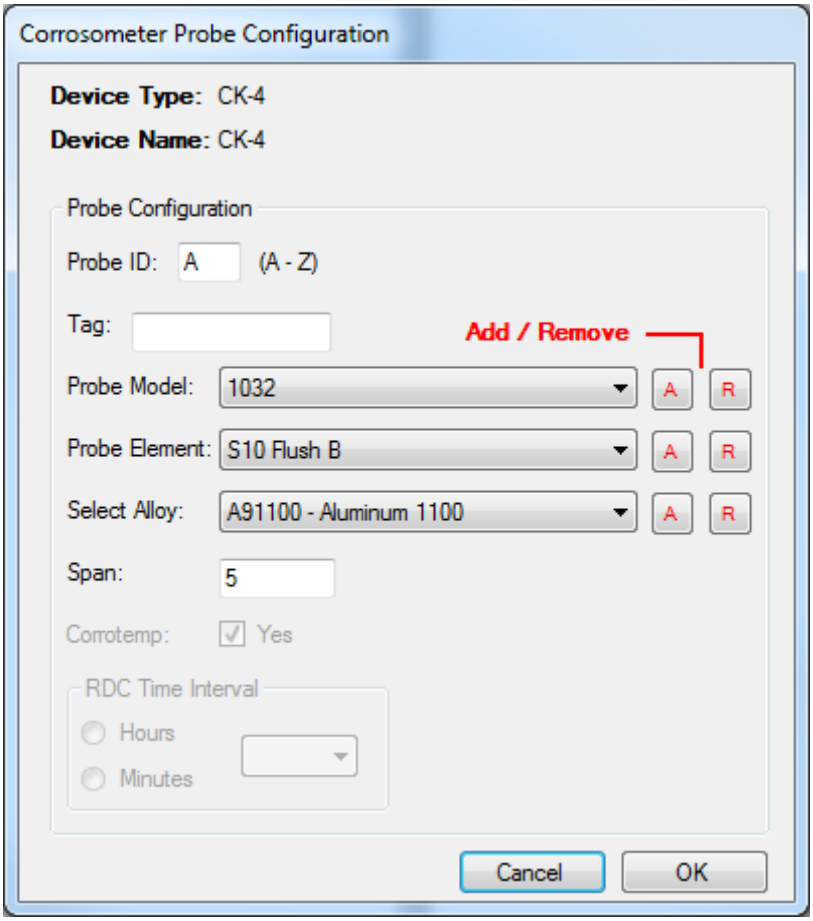
1. Select Probe ID. The RDC-COT will accept Probe IDs from 1 to 50.
2. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
3. Select Probe. Select from a list of Corrosometer® probe types. The Probe Type will automatically set the Span.
4. Select Alloy. Select from a list of Alloys. The Alloy UNS number will automatically be set.
5. The Alloy and Span can be overridden if desired.
6. The Corrotemp Check Box may be unchecked if desired.
7. Select RDC Time Interval: The Time Interval sets the reading interval of the RDC. The time interval in hours can be set to 1, 2, 3, 4, 6, 8, 12, or 24. The time interval in minutes and be to 5, 10, 15, or 30.
8. Hit OK to accept or Cancel.

Corrotemp®-CO - Drop on RDC4-COT:



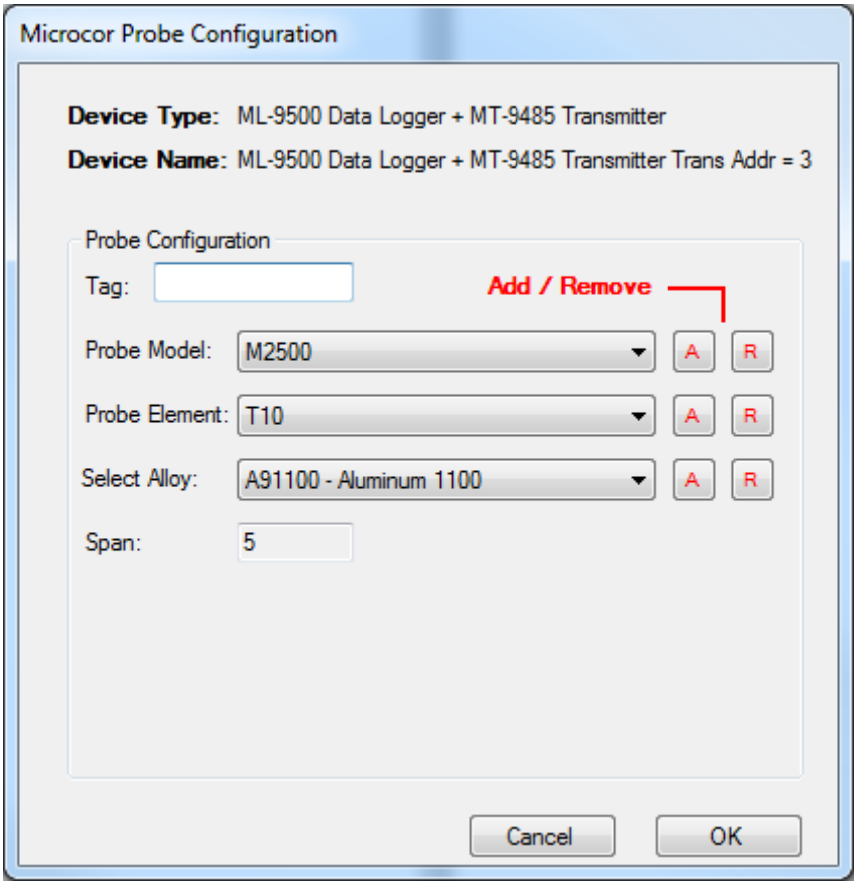
1. Select Probe ID. The RDC4-COT will accept Probe IDs from 1 to 50. The RDC4-COT will accept up to 4 probes.
2. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
3. Select Probe. Select from a list of Corrosometer® probe types. The Probe Type will automatically set the Span.
4. Select Alloy. Select from a list of Alloys. The Alloy UNS number will automatically be set.
5. The Alloy and Span can be overridden if desired.
6. The Corrotemp Check Box may be unchecked if desired.
7. Select RDC Time Interval: The Time Interval sets the reading interval of the RDC. The time interval in hours can be set to 1, 2, 3, 4, 6, 8, 12, or 24. The time interval in minutes and be to 15, or 30.
8. Hit OK to accept or Cancel.

Corrotemp®-CO - Drop on CK-4:



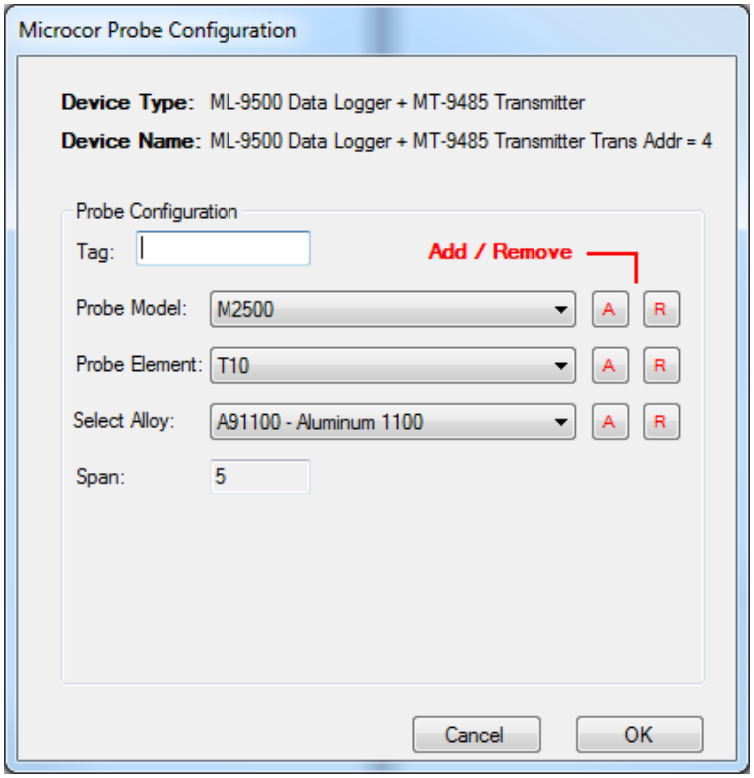
1. Select Probe ID. The CK-4 will accept Probe IDs from A to Z. The CK-4 will accept up to 26 probes.
2. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long. The CK-3 will accept as many probes as required.
3. Select Probe. Select from a list of Corrosometer® probe types. The Probe Type will automatically set the Span.
4. Select Alloy. Select from a list of Alloys. The Alloy UNS number will automatically be set.
5. The Alloy and Span can be overridden if desired.
6. Hit OK to accept or Cancel.

Microcor® - Drop on ML-9500 Data Logger + MT-9485 Transmitter: →



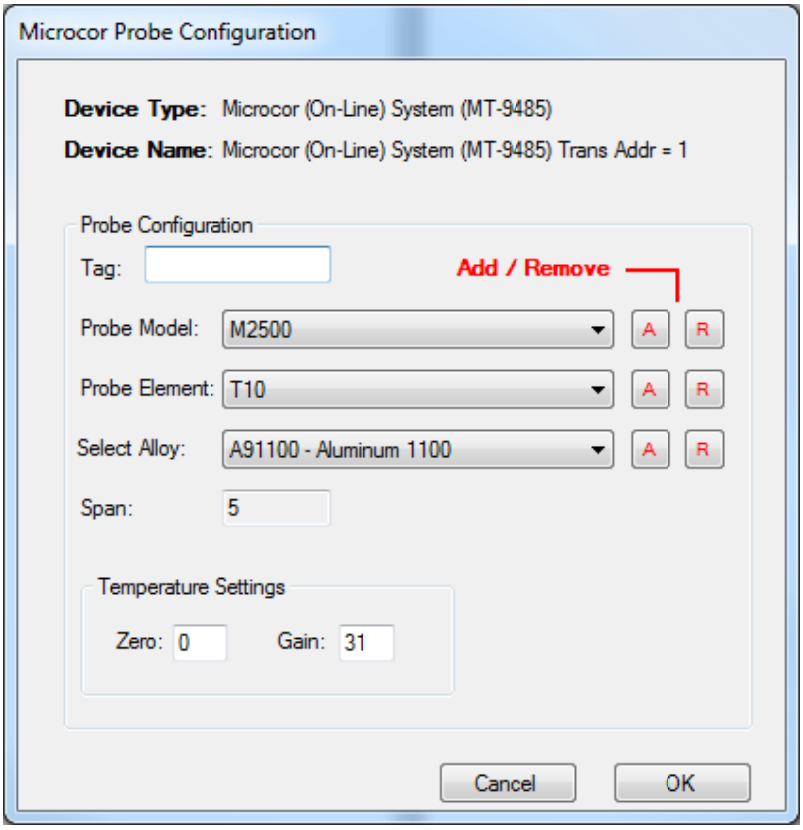
1. Select Probe Address. The address range is from 1 to 99.
2. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
3. Select Probe. Select from a list of Microcor® probe types.
4. Select Element. Select from a list of Elements. The Alloy UNS number and Span will automatically be set.
5. The Alloy and Span can be overridden if desired.
6. Set the Sampling Interval. The sampling interval is the interval that the Logger will take readings.
7. Hit OK to accept or Cancel.

Microcor® - Drop on Microcor (On-Line) System (MT-9485):



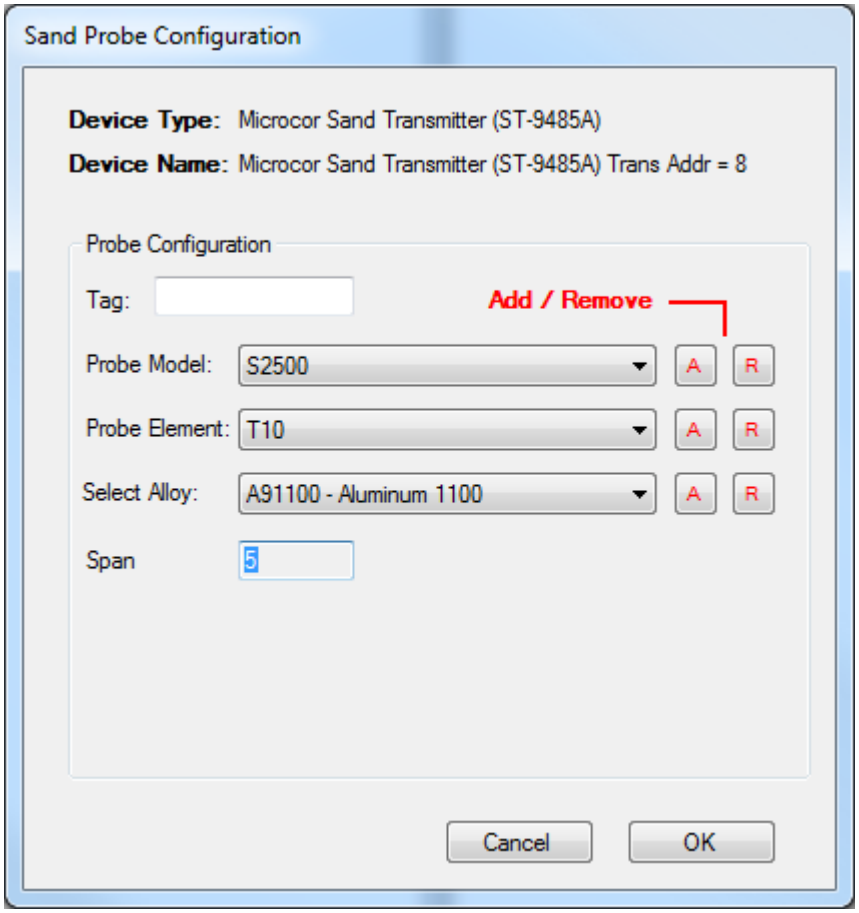
1. Select Probe Address. The address range is from 1 to 99.
2. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
3. Select Probe. Select from a list of Microcor® probe types.
4. Select Element. Select from a list of Elements. The Alloy UNS number and Span will automatically be set.
5. The Alloy and Span can be overridden if desired.
6. Hit OK to accept or Cancel.

Microcor® w/Temp - Drop on Microcor (On-Line) System (MT-9485): →



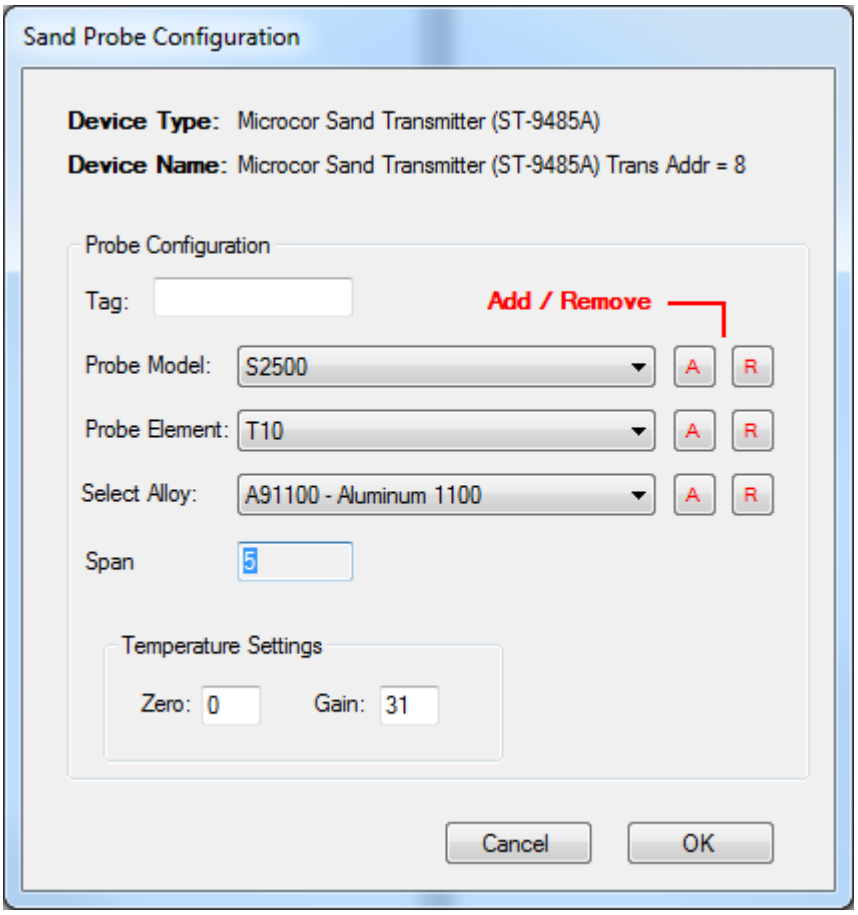
1. Select Probe Address. The address range is from 1 to 99.
2. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
3. Select Probe. Select from a list of Microcor® probe types.
4. Select Element. Select from a list of Elements. The Alloy UNS number and Span will automatically be set.
5. The Alloy and Span can be overridden if desired.
6. Set Temperature Settings: Zero and Gain.
7. Hit OK to accept or Cancel.

Microcor® Sand - Drop on Microcor (On-Line) System (ST-9485):

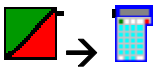


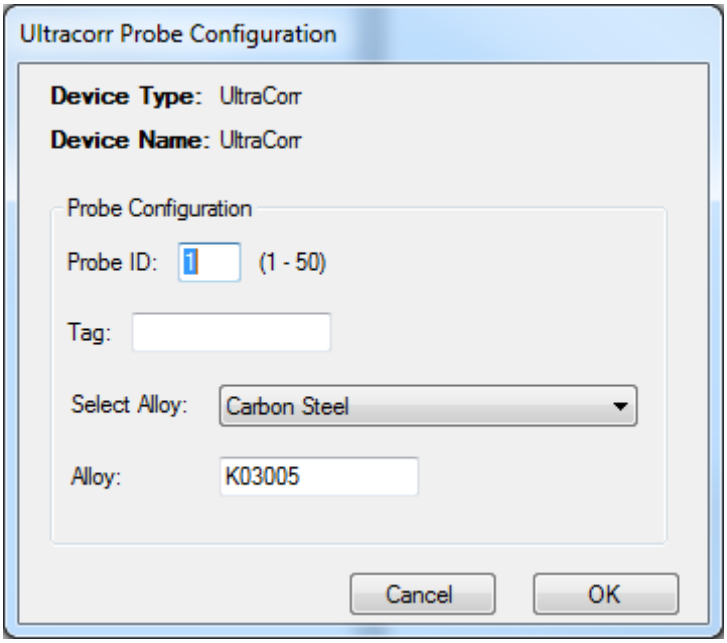
1. Select Probe Address. The address range is from 1 to 99.
2. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
3. Select Probe. Select from a list of Microcor® probe types.
4. Select Element. Select from a list of Elements. The Alloy UNS number and Span will automatically be set.
5. The Alloy and Span can be overridden if desired.
6. Hit OK to accept or Cancel.

Microcor® Sand w/Temp - Drop on Microcor (On-Line) System (ST-9485):



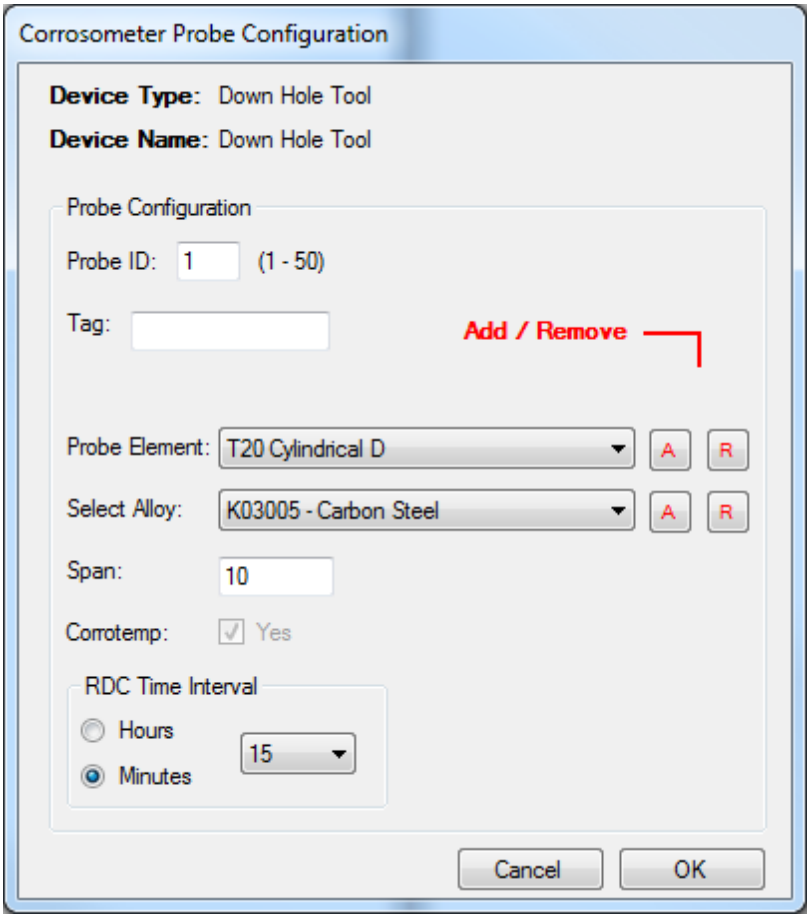
1. Select Probe Address. The address range is from 1 to 99.
2. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
3. Select Probe. Select from a list of Microcor® probe types.
4. Select Element. Select from a list of Elements. The Alloy UNS number and Span will automatically be set.
5. The Alloy and Span can be overridden if desired.
6. Set Temperature Settings: Zero and Gain.
7. Hit OK to accept or Cancel.

UltraCorr® - Drop on UltraCorr®: 



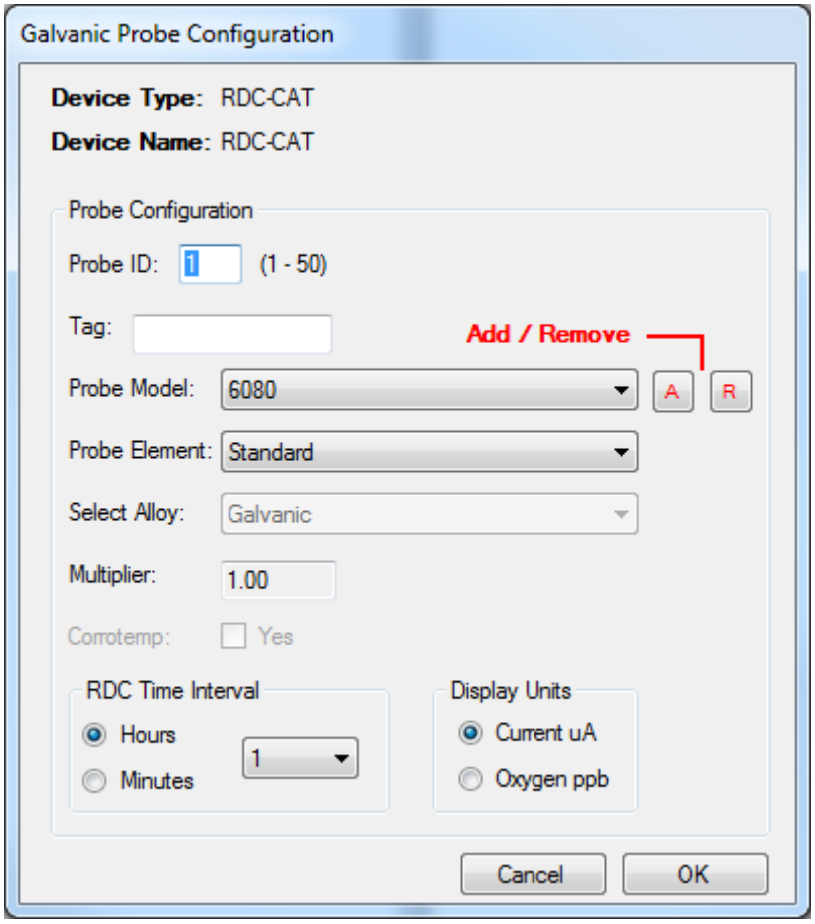
1. Select Probe ID. The UltraCorr® will accept Probe IDs from 1 to 50.
2. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
3. Select Alloy. Select from a list of Alloys, i.e., Carbon Steel, Stainless Steel 304, and Stainless Steel 316. The Alloy UNS number will be set.
4. The Alloy can be overridden if desired.
5. Hit OK to accept or Cancel.

Down Hole Tool:



1. Select Probe ID. The Down Hole Tool will accept Probe IDs from 1 to 50.
2. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
3. Select Alloy. Select from a list of Alloys, i.e., Carbon Steel, Stainless Steel 304, and Stainless Steel 316. The Alloy UNS number will be set.
4. The Alloy can be overridden if desired.
5. Hit OK to accept or Cancel.

Corrater®Galvanic- Drop on RDC-CA, or RDC-CAT:



1. Select Probe ID. The RDC-CAT will accept Probe IDs from 1 to 50.
2. Select Tag. The Tag is just for the user's reference and can be up to 12 characters long.
3. Select Probe. The options are Corrater E, Corrater Flush F, Test Probe CA E, and Other CA.
4. Select Alloy. Select from a list of Alloys or Other. Selecting an Alloy will automatically set the Alloy UNS number and Multiplier.
5. The Alloy and Multiplier can be overridden if desired.
6. Select RDC Time Interval: The Time Interval sets the reading interval of the RDC. The time interval in hours can be set to 1, 2, 3, 4, 6, 8, 12, or 24. The time interval in minutes and be to 30.
   Hit OK to accept or Cancel.

Chapter 6 Manual Entry of Data

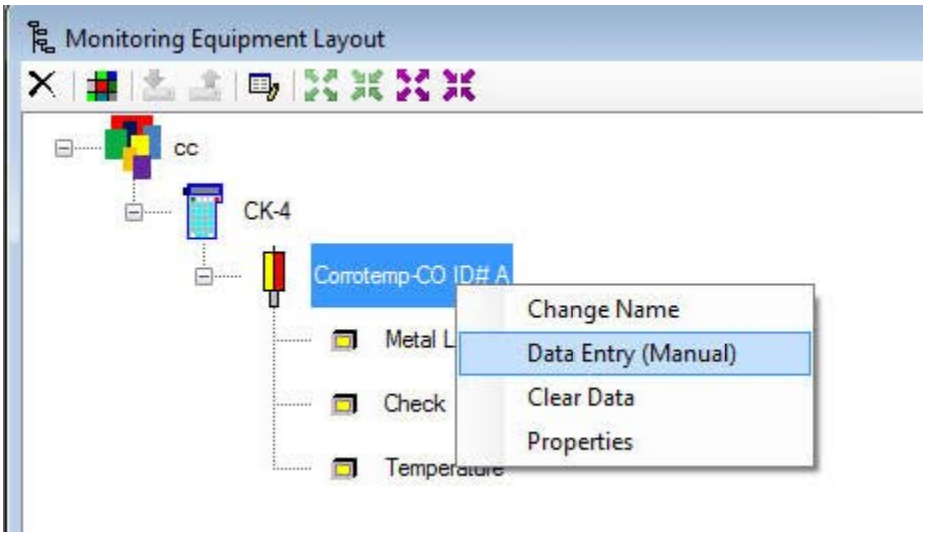
This chapter shows how to manually enter data into probe database.

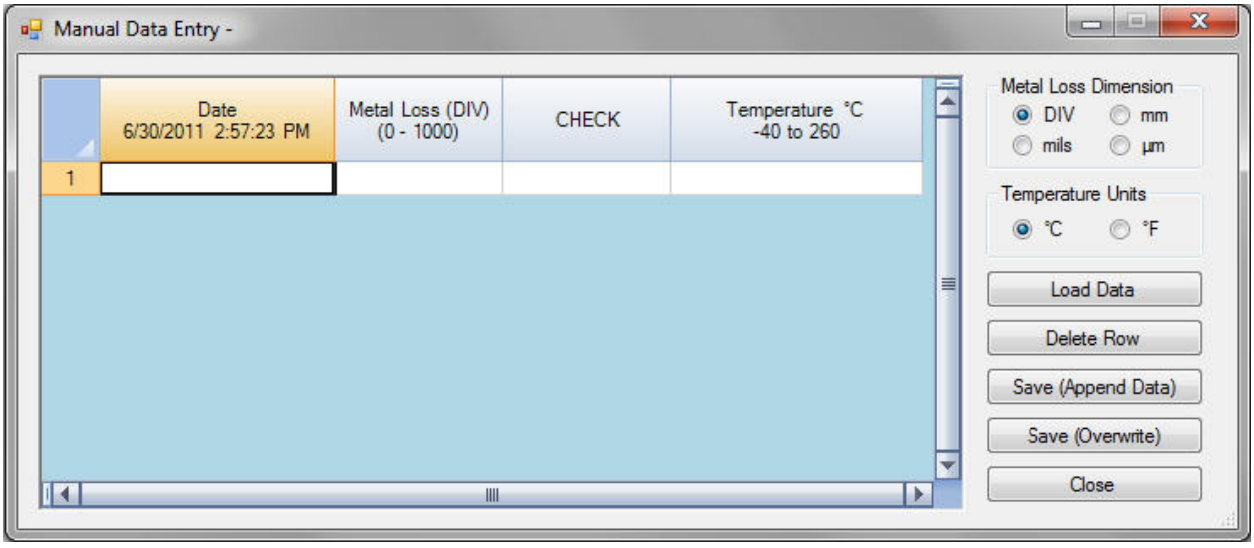
Manual Entry of Data:

Data may be entered manually for any probe, and is the only method of entering data for the following devices: 9000 – 9000 Plus, Aquamate, CK-3, and CK-4.

Below is an example of manual data entry for a CK-4 with a Corrotemp-CO probe.

Select ‘Data Entry (Manual)’ from the context menu or select the ‘Data Entry (Manual)’ icon from the tool bar.





The data columns will be configured to match the type of probe selected.

You may choose the units of measurement for the Metal Loss Column, by selecting the units from the Metal Loss Dimension group box.

You may choose Temperature units from the Temperatureunit’s group box.

Load Data button: Pressing the ‘Load Data’ button will get all data from the database for the probe selected.

Delete Row button: Use the mouse to select a row you want to delete, and then press the ‘Delete Row’ button.

Save (Append Data): Pressing the ‘Save (Append Data) button will save all new data entered with a new Date.

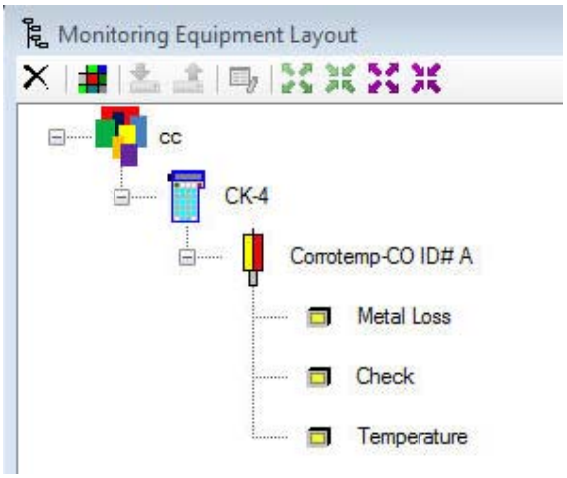
Save (Overwrite): Pressing the ‘Save (Overwrite) button will delete all the data in the database for the selected probe, and then will write all of the data in the spread sheet to the database.

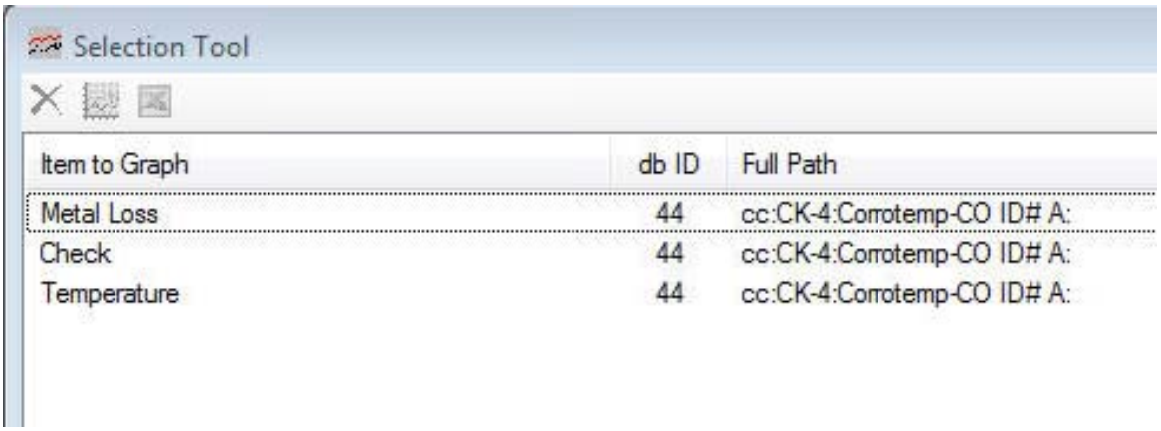
Close button: Pressing the ‘Close’ will cancel any changes made and leave the manual data entry screen.

Chapter 7 Selection Tool and Graphing of Data

This chapter shows how to select data points to graph and the usage of the graphing tool.

Selection Tool:





The Selection Tool screen is where you can graph data point, export data point to an Excel file. The 'Remove Data Points' ✕ is used to remove data points from the Selection Tool list, but does not remove the data point from the database.

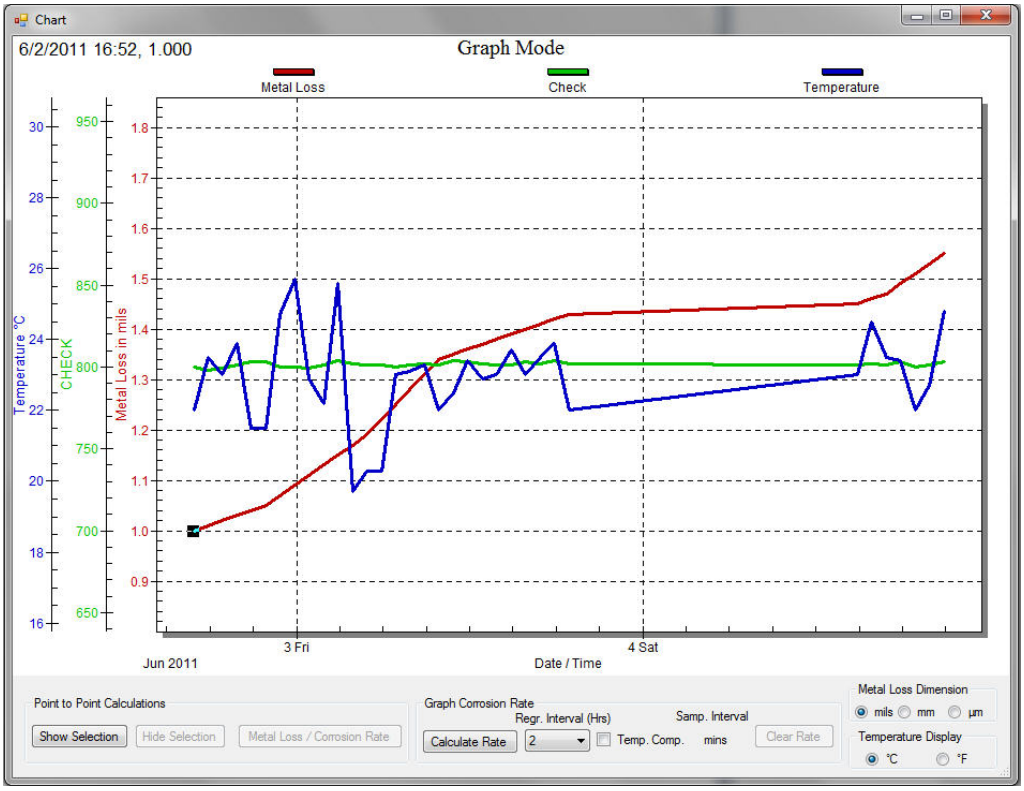
To fill the Selection Tool list: Drag any node from the 'Equipment Layout' to the 'Selection Tool', and all data point below that node will be listed on the 'Selection Tool' list.

For the example here, I have dragged the CK-4 icon to the Selection Tool.

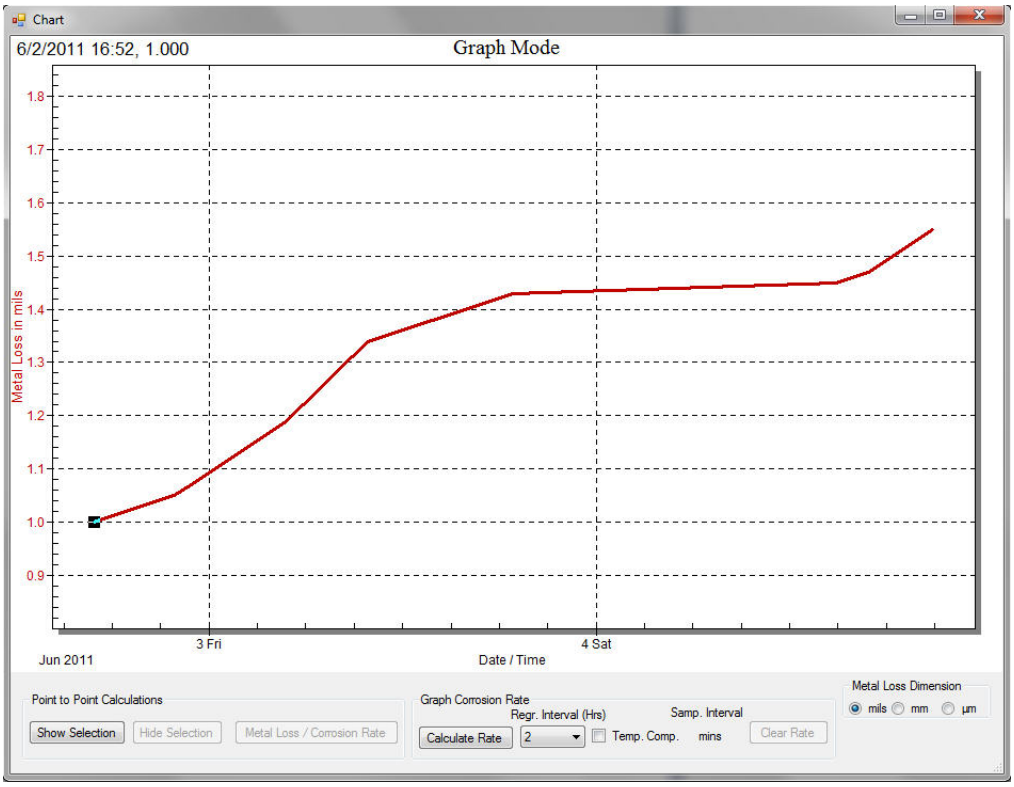
Select 'Metal Loss', 'Check', and 'Temperature' from the list (all items selected will be highlighted.

Graphing of data:

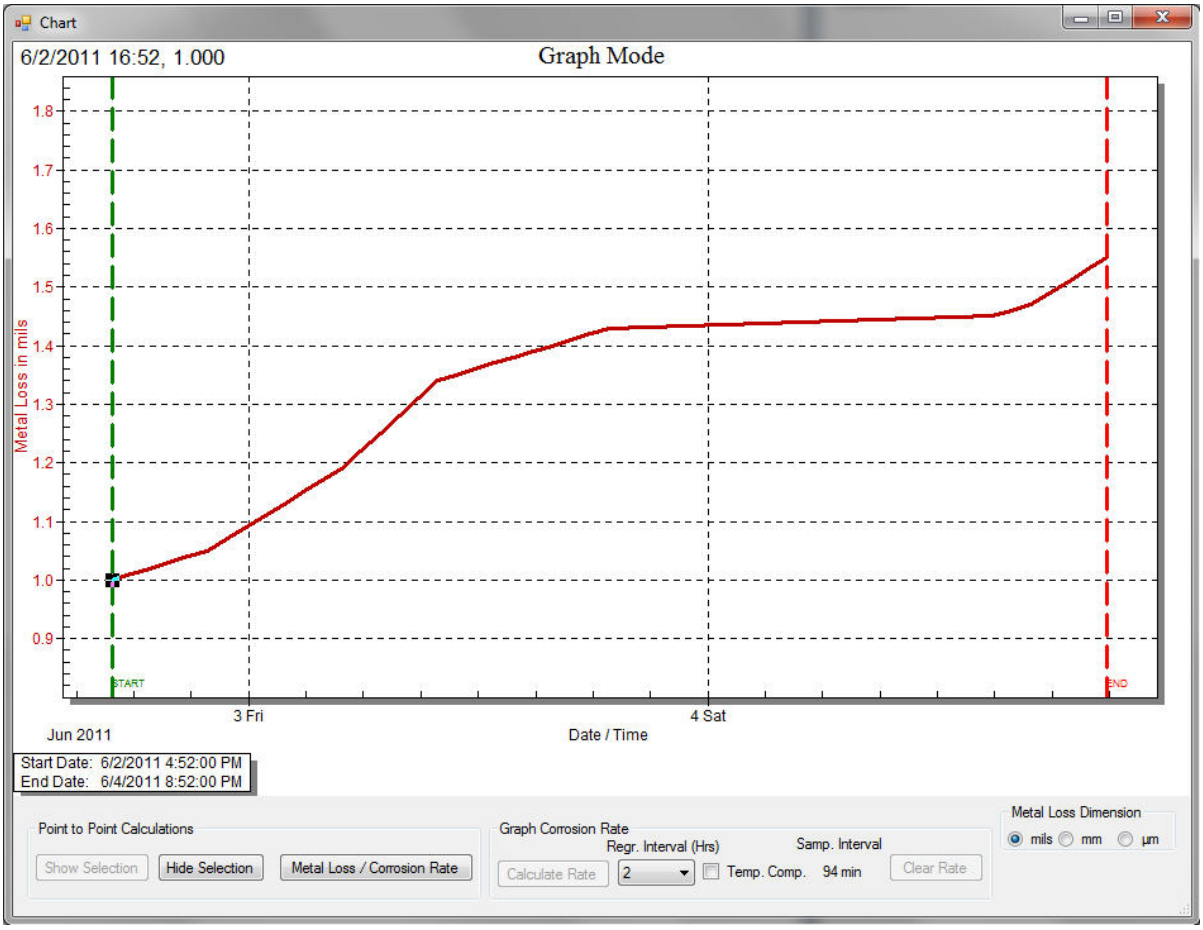
Press the Graph icon . The following graph will be displayed using the data from the database for the data points selected.



Now exit the graph and select only the 'Metal Loss', then press the Graph icon again. The following graph will be displayed.

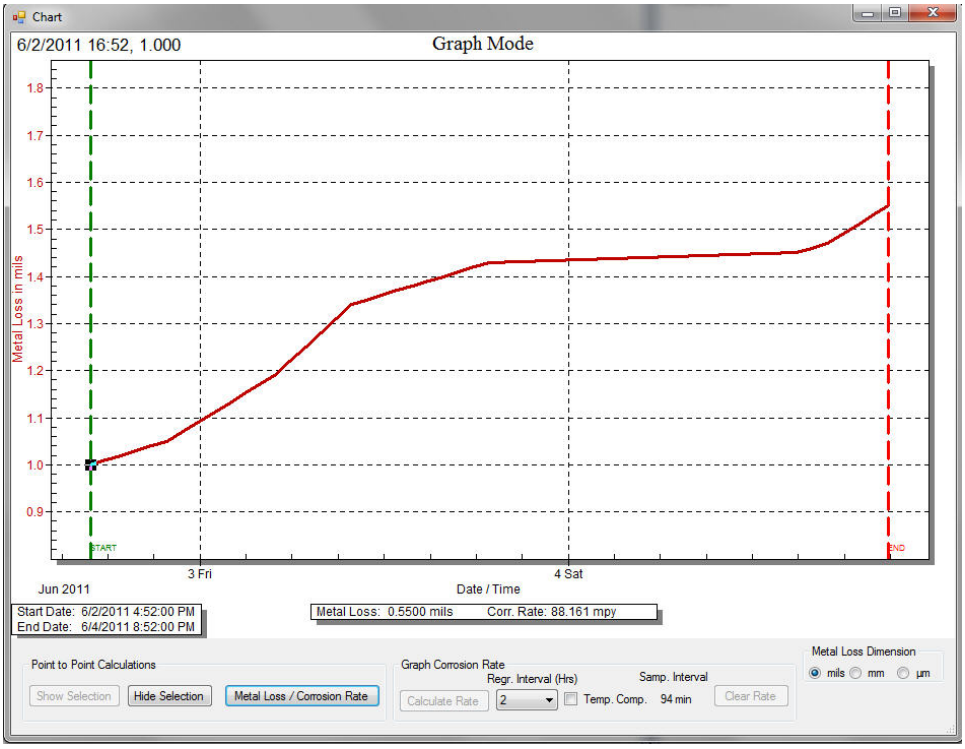


Press the ‘Show Selection’ button. The following will now show.



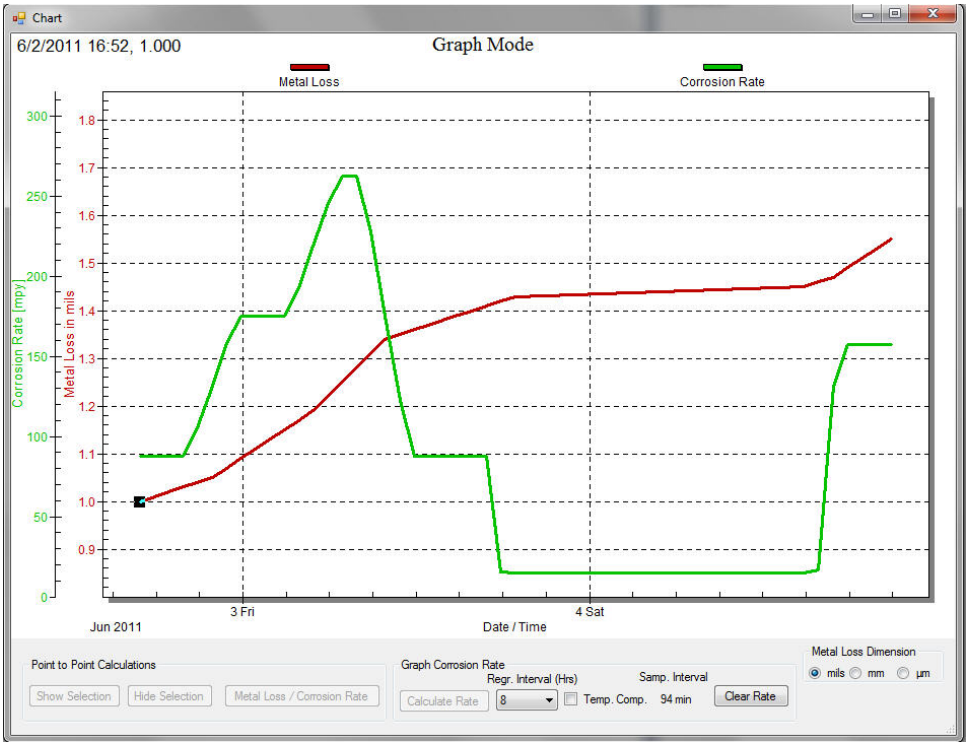
The Green vertical bar (START) and the Red vertical bar (END) and be moved horizontally by clicking and holding on one of the bars and moving with the mouse. As you move the bar, the ‘Start Date’ and ‘End Date’ will change.

Now hit the ‘Metal Loss / Corrosion Rate’ button and the Metal Loss and the Corrosion Rate will be displayed the Start and End dates selected. In this example the Metal Loss is 0.5500 mils, and the Corrosion Rate is 88.161 mpy.



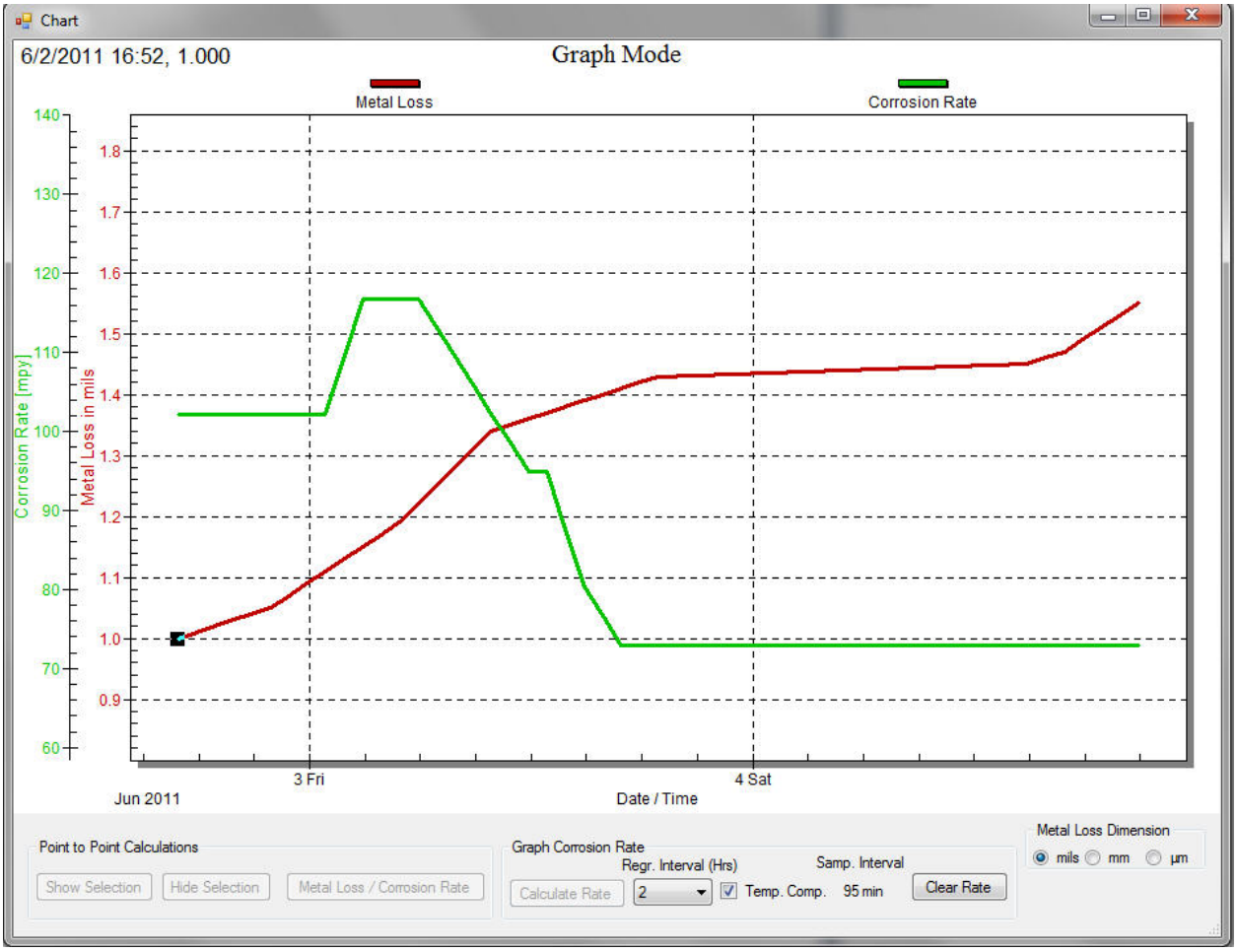
Now press the ‘Hide Selection’ button.

For the next example, I set the ‘Regr. Interval (Hrs)’ to 8 hours, then hit the ‘Calculate Rate’ button. This will graph the rate of the metal loss displayed.



Now hit the ‘Clear Rate’ button.

For the next example, I set the ‘Regr. Interval (Hrs)’ to 2 hours, checked the ‘Temp. Comp’ button, then hit the ‘Calculate Rate’ button. This will graph the rate of the metal loss displayed.



The regression interval in hours can be set from 2 to 24 hours.

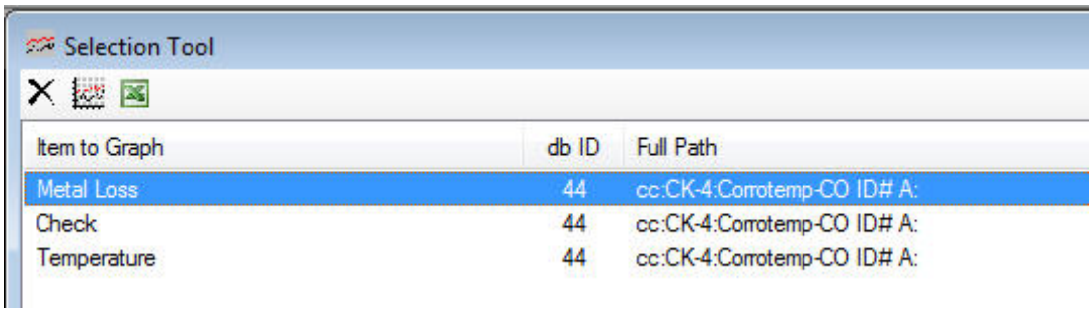
The Temperature Compensation is used to compensate for temperature fluctuations thatoccur on a 24 hour period.

The displayed metal loss units can be changed by selecting from the ‘Metal Loss Dimension’ group box.

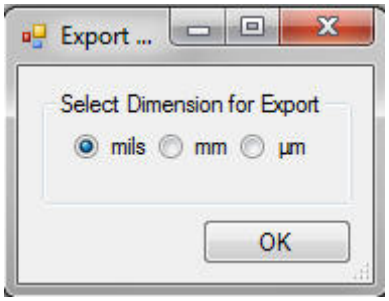
The displayed temperature units can be changed by selecting for the ‘Temperature Display’ group box.

Excel Export:

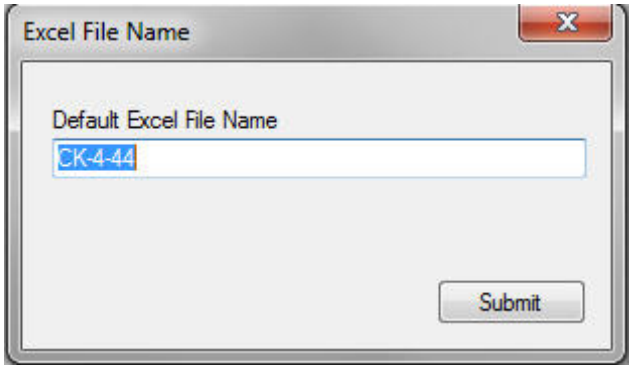
From the Selection Tool, select the data points to export to an Excel file.



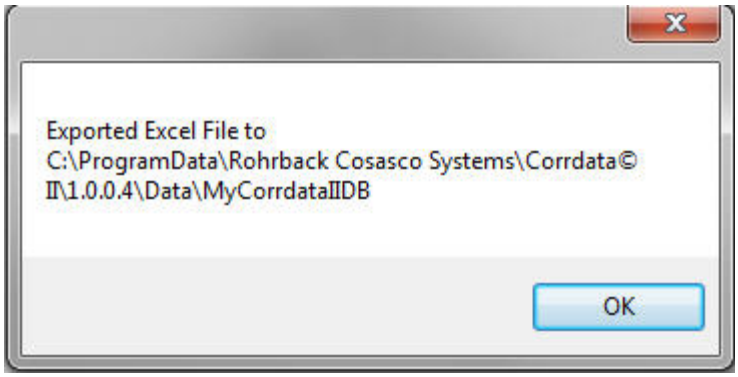
Then hit the Excel Export button . The follow screen will appear. Select the desired units for the Excel file, then hit OK.

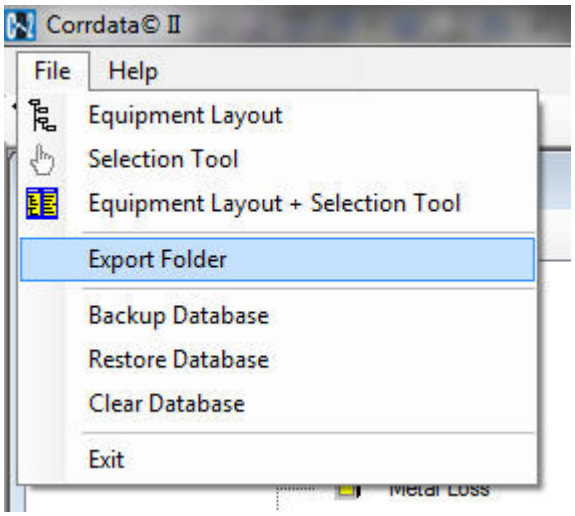


The following screen will appear with a default name for the Excel file. The file name may be changed as required.



The next screen will show when the Excel file will be saved. You can change the save location by selectings ‘Export Folder’ under the ‘File’ menu.


Exported Excel File to
C:\ProgramData\Rohrback Cosasco Systems\Corrdata©
II\1.0.0.4\Data\MyCorrdataIIDB
OK

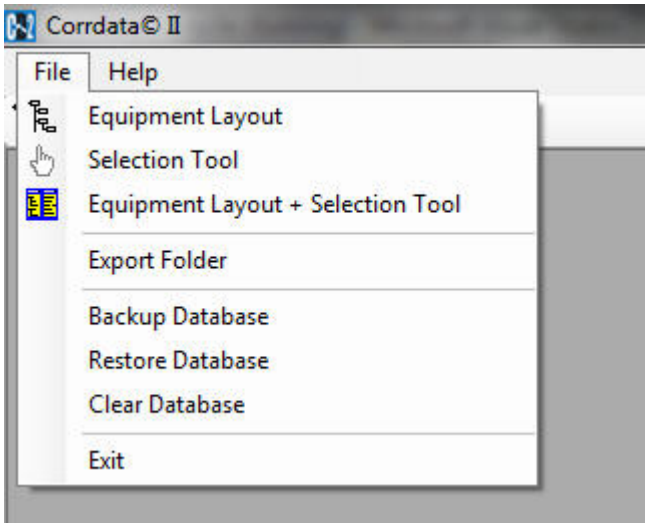

Corrdata© II
File
Help
Equipment Layout
Selection Tool
Equipment Layout + Selection Tool
Export Folder
Backup Database
Restore Database
Clear Database
Exit

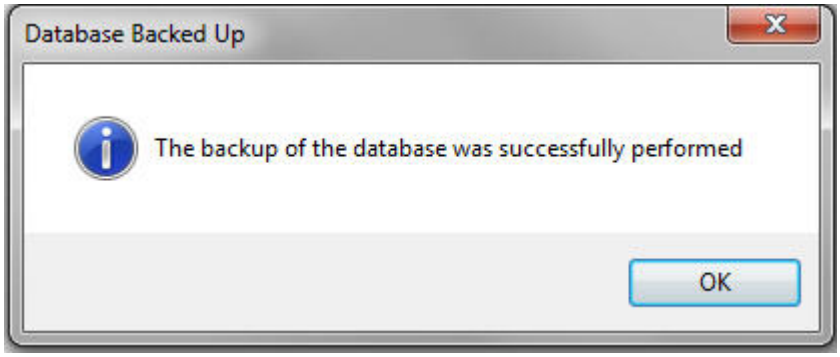
Chapter 8 Database Backup, Restore, and Clear

This chapter shows how to backup, restore, and clear the database

Backup Database:

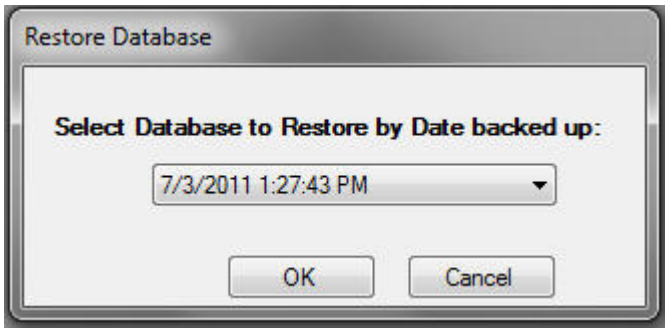
To backup the database, select ‘Backup Database’ in the ‘File’ menu. The backup will be saved by the Date/Time saved.

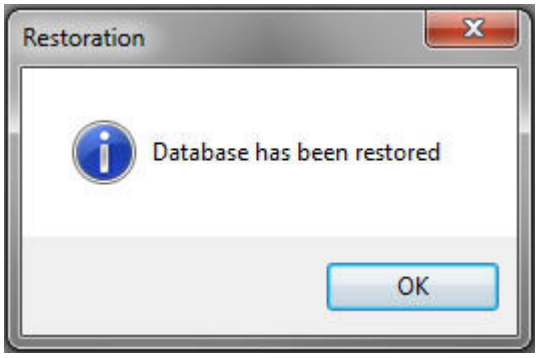




Restore Database:

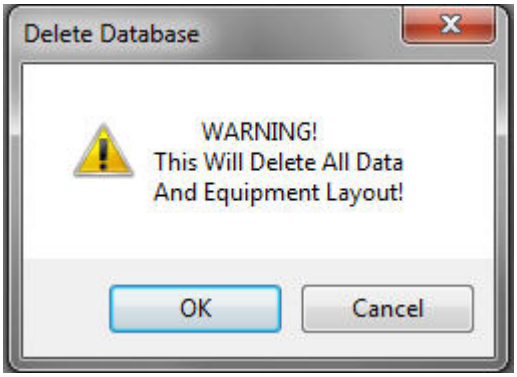
To restore the database, select ‘Restore Database’ in the ‘File’ menu. You will be presented with a drop down list of databases that may be restored.





Clear Database:

To clear the database, select ‘Clear Database’ in the ‘File’ menu. This action will delete all data and device configurations.

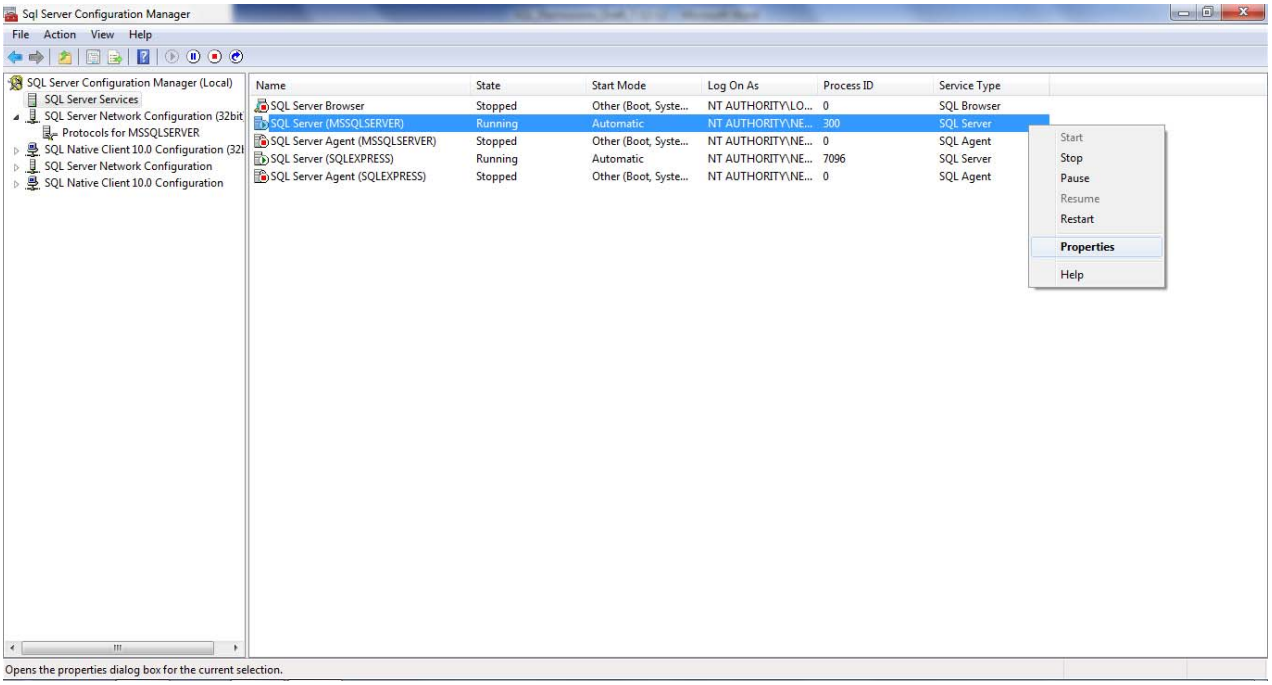


Chapter 9 Troubleshooting Guide

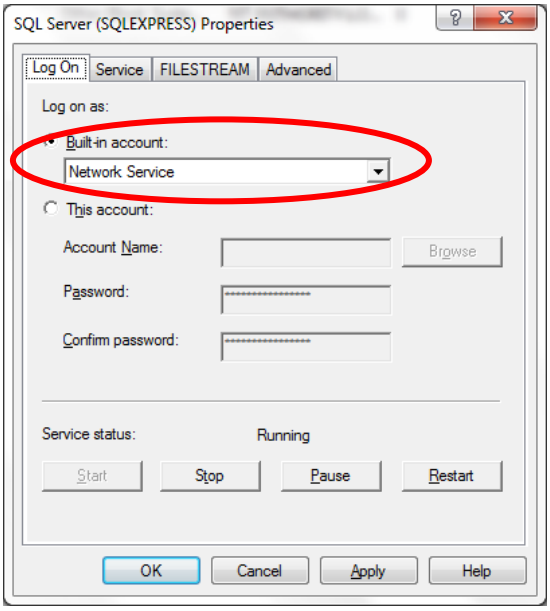
This chapter covers how to troubleshoot installation and software issues.

Err 01 – SQL Error:

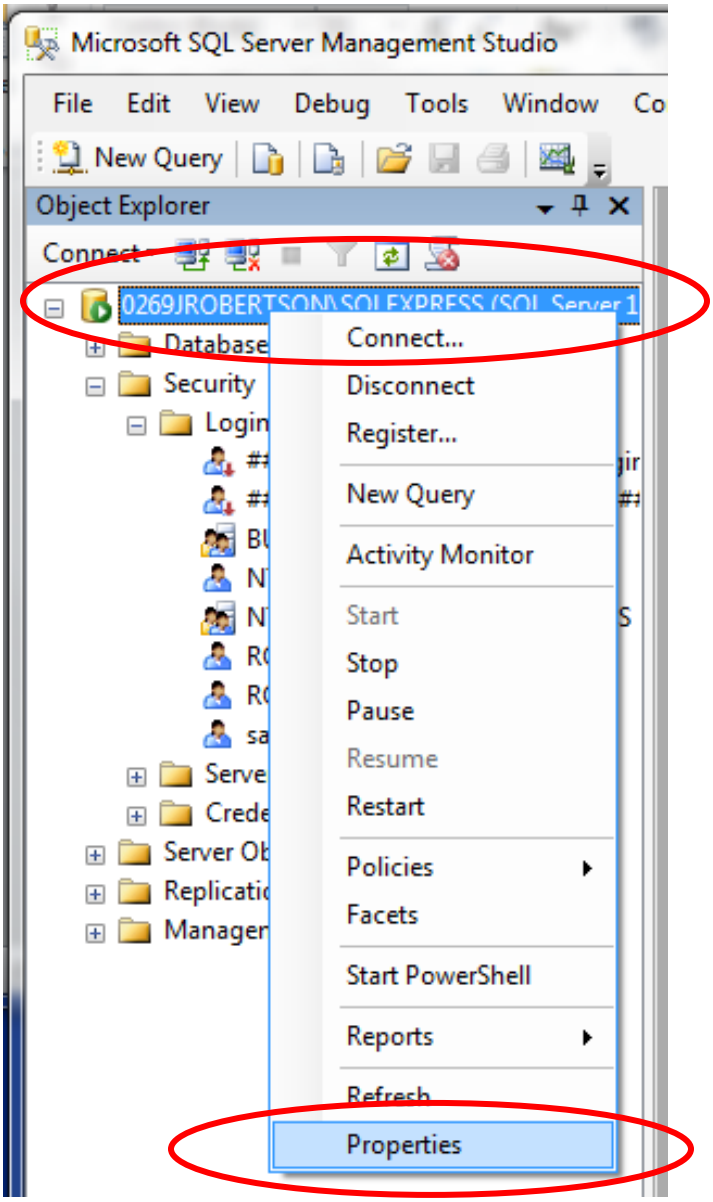
On **SQL Server Configuration Manager:** Right click onto “properties.”



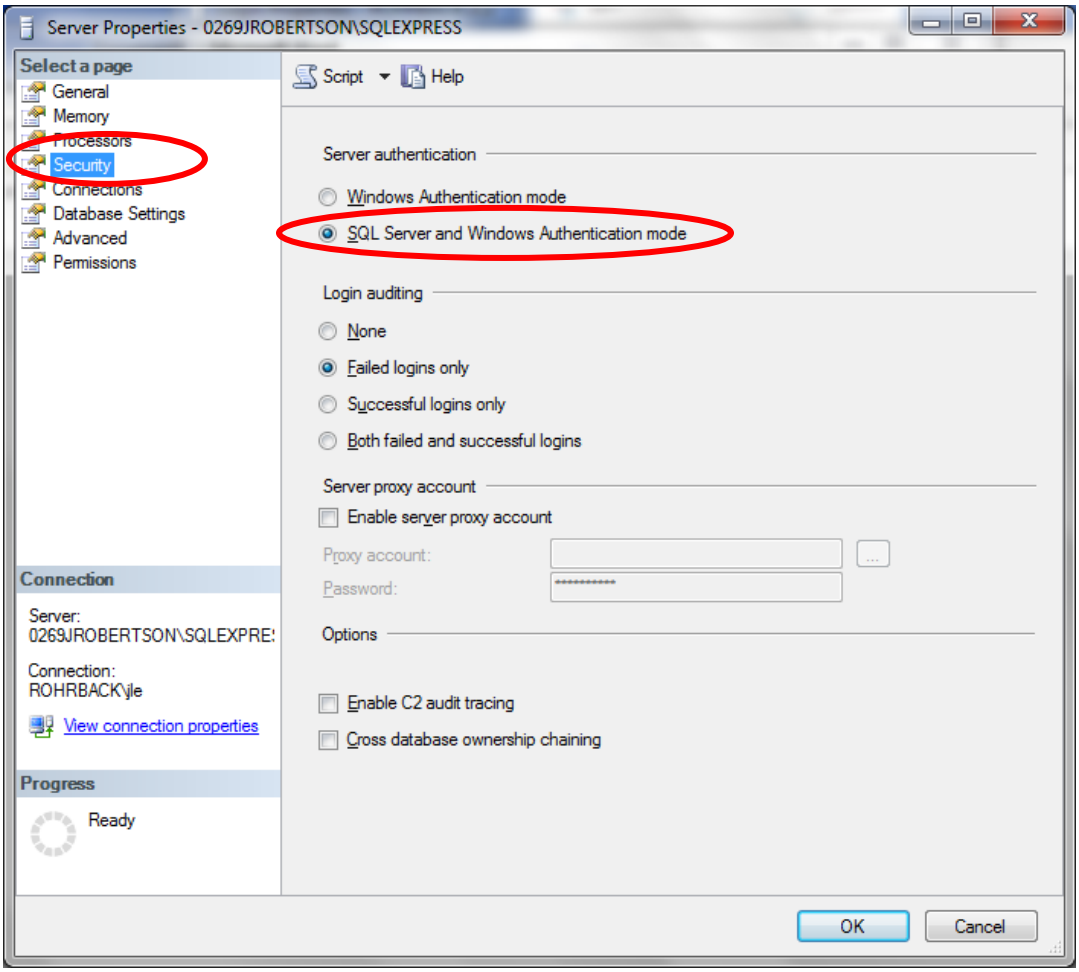
Ensure the “Log On” is set to “Built in account” type “Network Service”



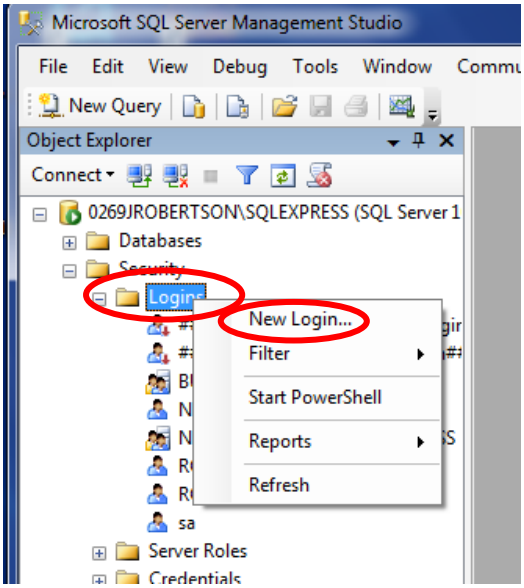
Open SQL Server Manager Studio. Right-click on the server instance and select “Properties.”



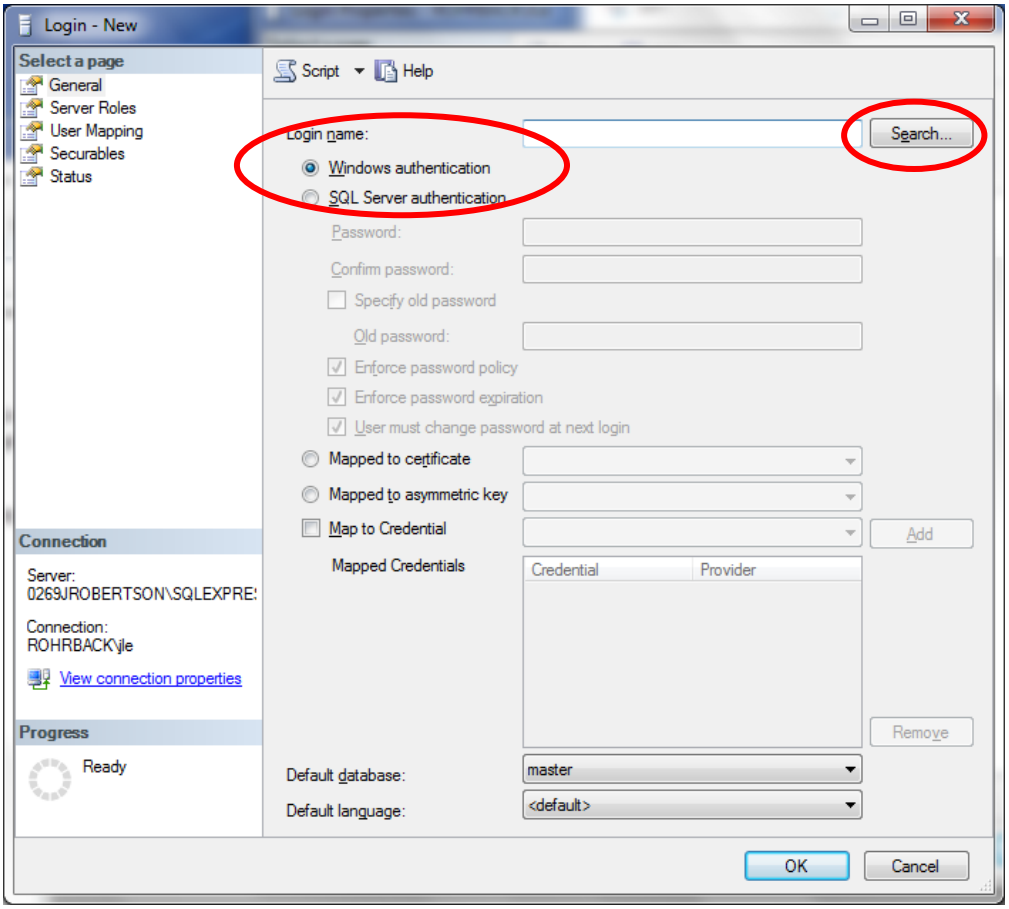
Under “Security,” select SQL Server and Windows Authentication mode:



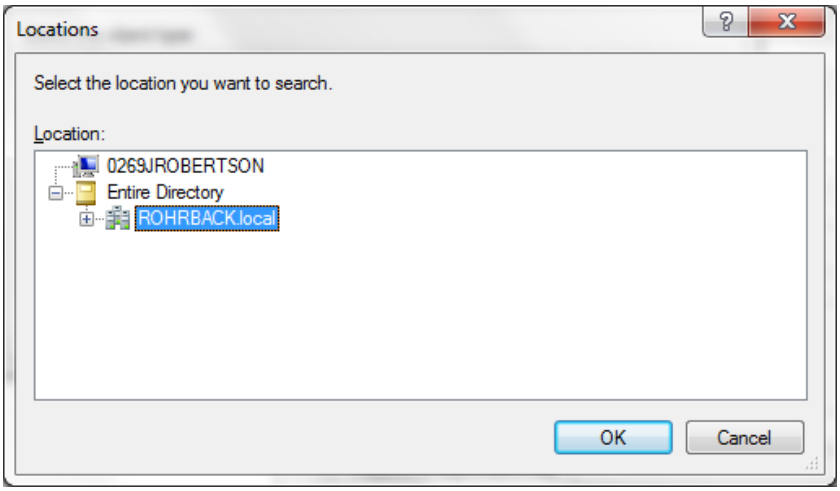
Navigate to “Security,” then click on “Logins” and select “New Login…”



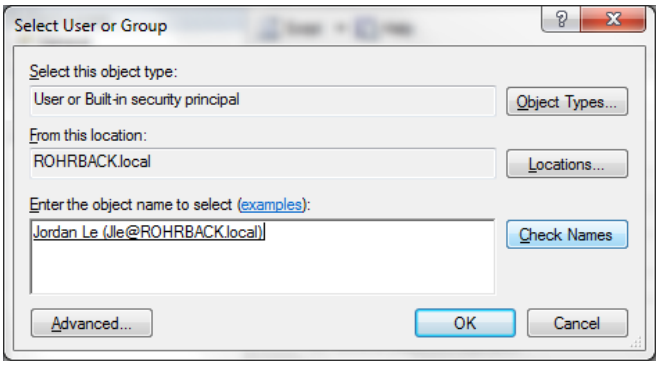
Keep “Windows authentication” selected and select a user name using the “Search…” button.



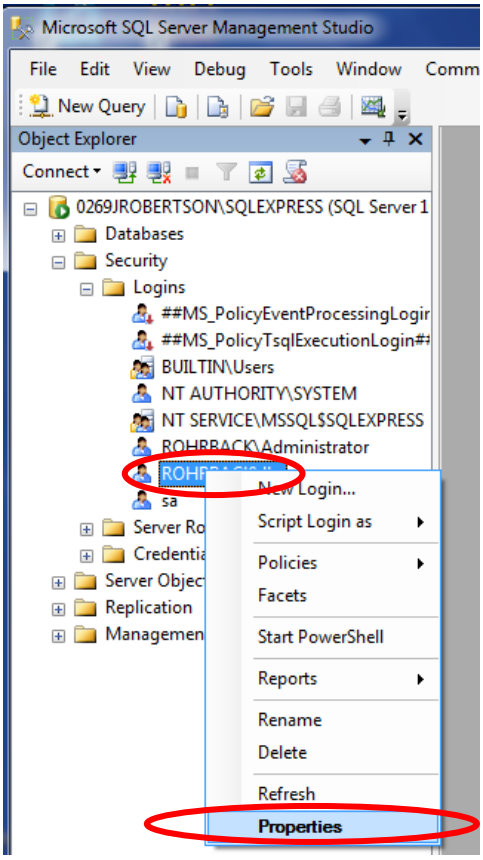
Make sure the location is correctly selected.



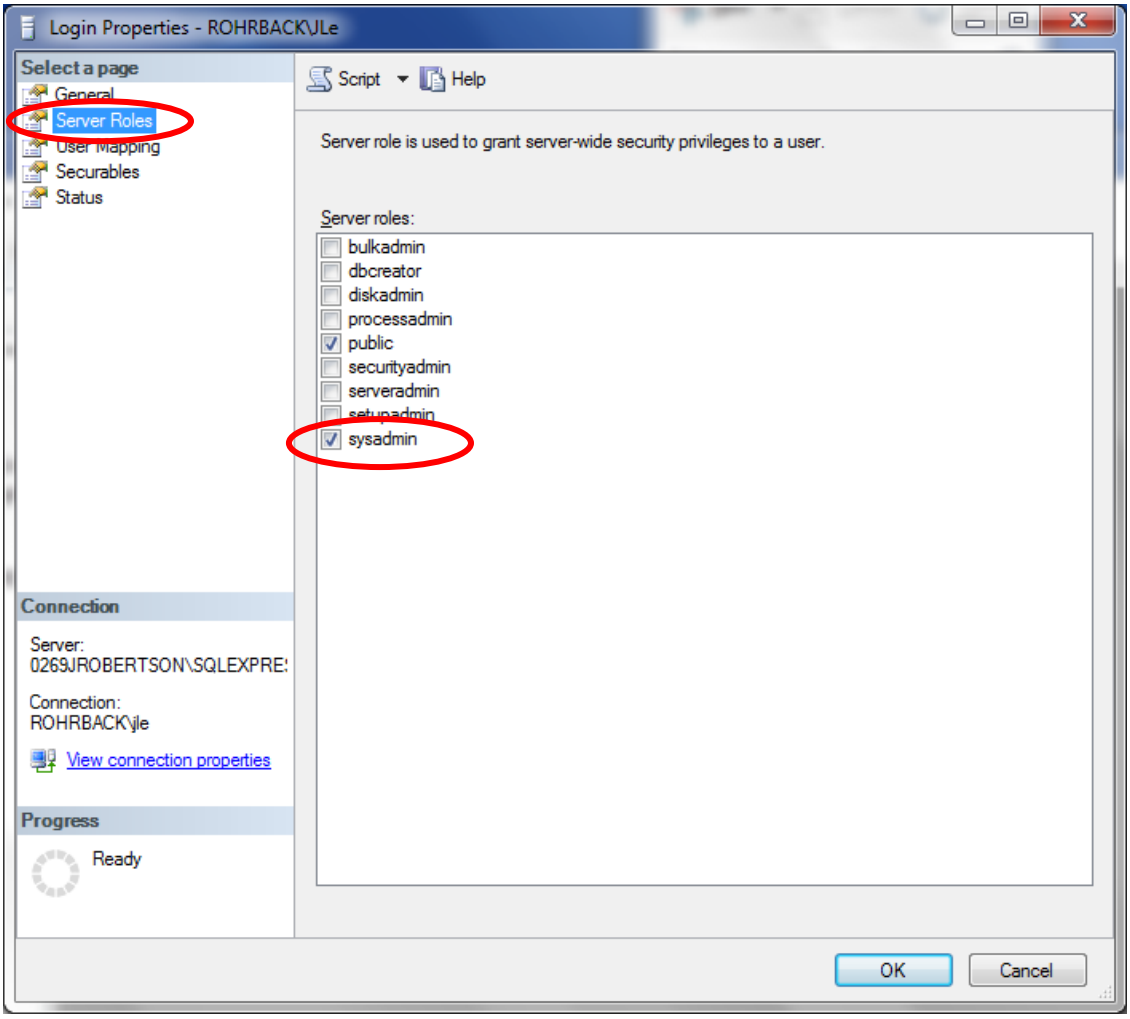
Select the new user that was created (the user with limited rights) and click “OK.”



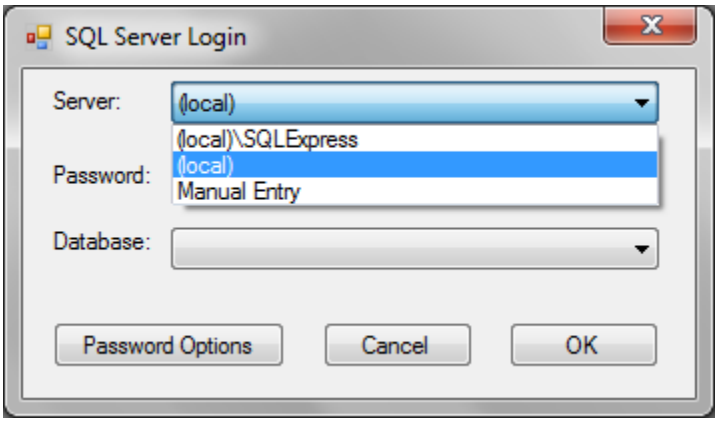
Right-click and select “Properties” on the limited user.



Under “Server Roles,” add a checkmark to “sysadmin” and click “OK.”

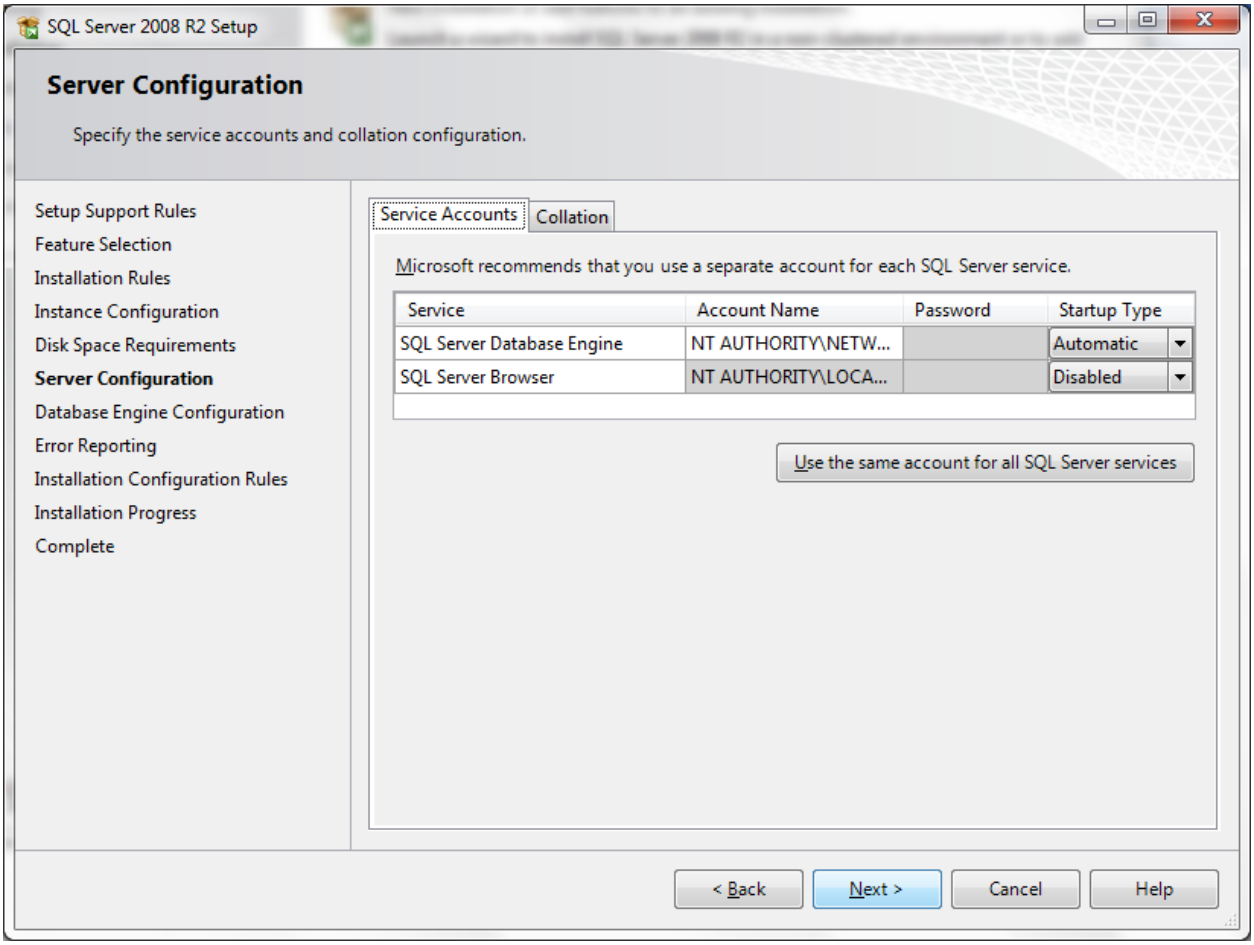


You may now log back into Corrdata IIas a limited user by selecting the following server “(local).”

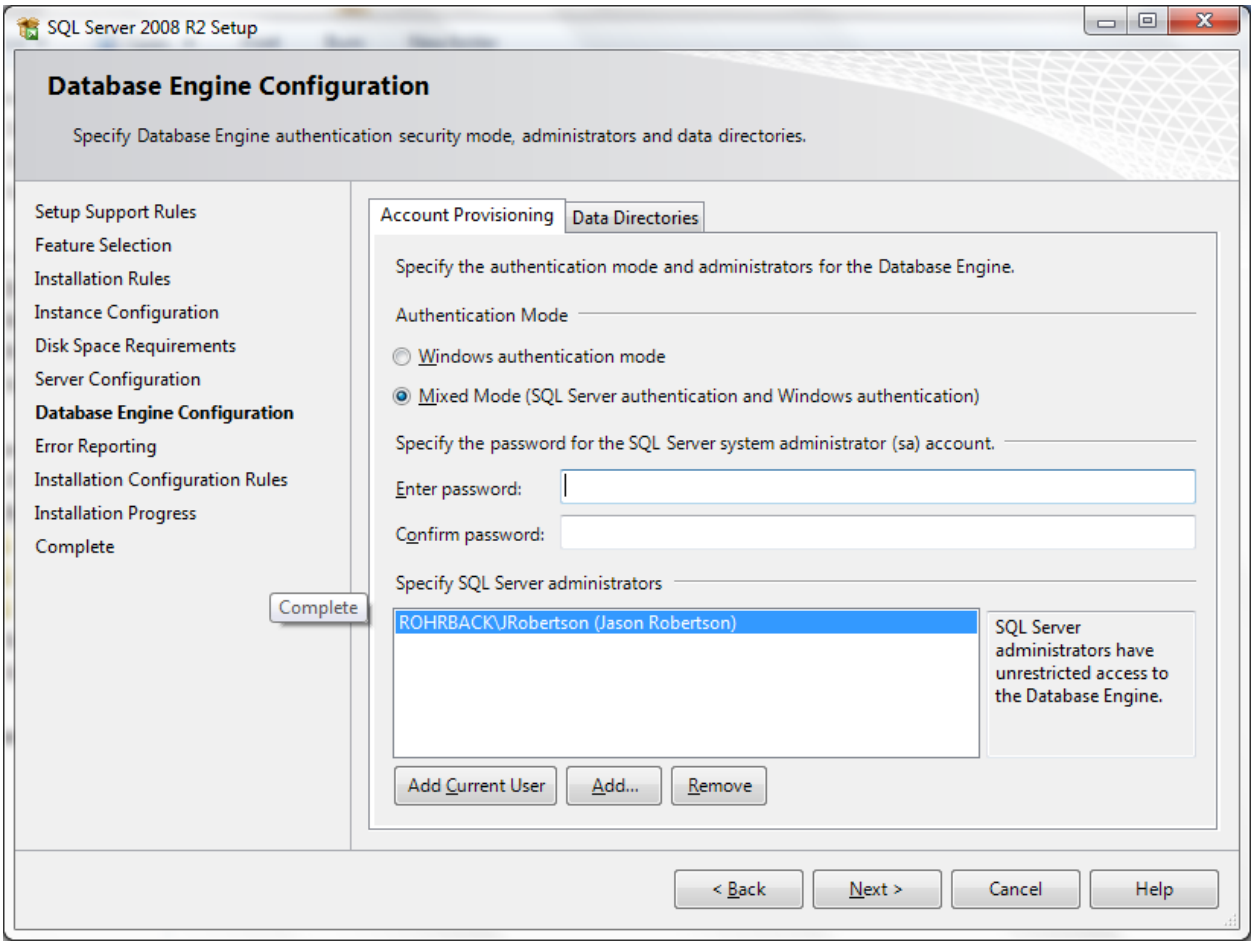
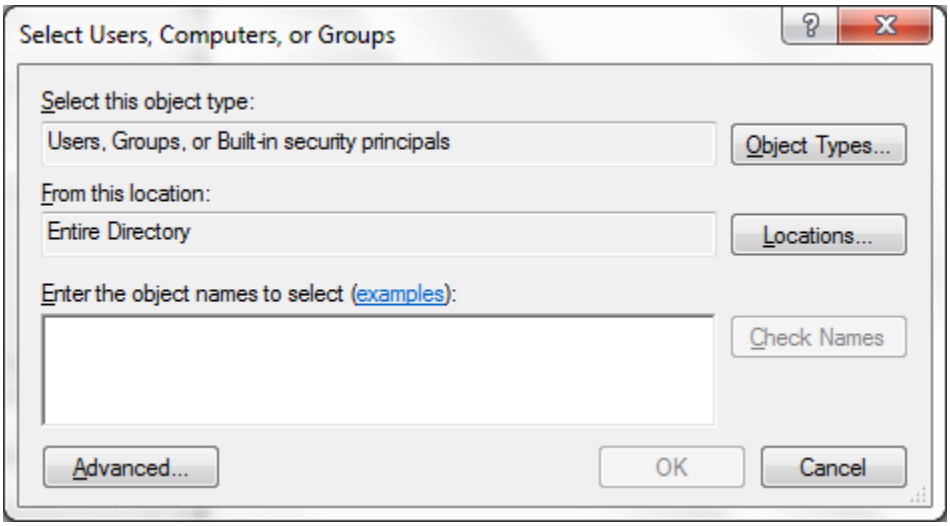


Err 01 – SQL Error Alternate Solution:

Alternate Option to previous error when first installing an instance of Microsoft SQL:



Add users that will be required to have access to Corrdata II (Including limited users).



Select the new user that was created (the user with limited rights) and click “OK” to avoid the error.